# EXHIBIT 34

Page 1

IN THE UNITED STATES DISTRICT COURT

FOR THE DISTRICT OF NEW JERSEY

IN RE: JOHNSON & JOHNSON TALCUM

POWDER PRODUCTS MARKETING, SALES

PRACTICES, AND PRODUCTS LIABILITY

LITIGATION

MDL No.

2738 (FLW)(LHG)

VIDEOTAPED DEPOSITION OF

REBECCA SMITH-BINDMAN, M.D.

San Francisco, California

Thursday, February 7, 2019

Volume I

Reported by: MARY J. GOFF CSR No. 13427

	Dago 2	Daga 4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Videotaped Deposition of REBECCA SMITH-BINDMAN, M.D., Volume I, taken on behalf of Johnson & Johnson, at Levin Simes Abrams LLP, 1700 Montgomery Street, Suite 250, San Francisco, California 94111, beginning at 9:20 a.m. and ending at 4:01 p.m., on February 7, 2019, before MARY J. GOFF, California Certified Shorthand Reporter No. 13427.	1 APPEARANCES (continued): 2 For Plaintiffs 3 Restaino Law LLC 4 BY: JOHN M. RESTAINO JUNIOR 5 Attorney at Law 6 130 Forest Street 7 Denver, Colorado 80220 8 jrestaino@restainollc.com 9 720-891-7921 10 11 12 For Defendant Johnson & Johnson 13 Tucker Ellis LLP 14 BY: MICHAEL C. ZELLERS 15 Attorney at Law 16 515 South Flower Street 17 42nd Floor 18 Los Angeles, California 90071 19 michael.zellers@tuckerellis.com 20 213-430-3301 21 22 23 24 25
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	APPEARANCES:  For Plaintiffs  Beasley Allen Law Firm BY: P. LEIGH O'DELL  MARGARET M. THOMPSON, MD, JD, MPAff Attorney at Law 218 Commerce Street Montgomery, Alabama 36103 leigh.odell@beasleyallen.com 334-269-2343  For Plaintiffs  Robinson Calcagnie, Inc. BY: CYNTHIA L. GARBER Attorney at Law 19 Corporate Plaza Drive Newport Beach, California 92660 cgarber@robinsonfirm.com 949-720-1288	Page 5  APPEARANCES (continued): For Defendant Johnson & Johnson Skadden, Arps, Slate, Meagher & Flom, LLP. BY: BENJAMIN HALPERIN Attorney at Law 4 Times Square New York, New York 10036 benjamin.halperin@skadden.com 212-735-2453  For Defendant Imerys Dykema BY: JANE BOCKUS Attorney at Law 112 E. Pecan Street Suite 1800 San Antonio, Texas 78205 jbockus@dykema.com 20 210-554-5549  21 22 23 24 25

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3	Gordon & Rees LLP	3	REBECCA SMITH-BINDMAN, M.D.
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5	Attorney at Law	5	DVAD ZELLEDG 12
6	816 Congress Avenue	6 7	BY MR. ZELLERS 12
7	Suite 1510	8	NUMBER DESCRIPTION PAGE
8	Austin, Texas 78701	9	Exhibit 1 Notice of Oral and Videotaped 24
9	jfoster@gordonrees.com		Deposition
10	512-391-0197	10	-
11		11	Exhibit 2 Rule 26 Expert Report of 25
12		1.0	Rebecca Smith-Bindman, MD
13	For Defendant PCPC, Personal Care Products Council	12 13	Exhibit 3 IMERYS list, Amended Expert Report 30
14	Seyfarth Shaw, LLP	14	Exhibit 3 livier 13 list, Amended Expert Report 30
15	BY: JAMES R. BILLINGS-KANG	15	(Exhibit 4-11, premarked Hopkins Exhibit 28
16	Attorney at Law	16	(Spreadsheet) premarked Pier 47 (Exhibit Number
17	975 F Street, NW	17	list) and unmarked article "Pycnogenol Reduces
18	Washington, D.C. 20004	18	Talc-induced Neoplastic Transformation in Human
19	jbillingskang@seyfarth.com	19	Ovarian Cell Cultures" (Pltf_MISC_00000046) are
20	202-828-5356	20 21	contained in the blue folder)
21		22	Exhibit 4 Reproductive Sciences 34
22		23	Emiliar i reproductive sciences 51
23			Exhibit 5 Safety Assessment article 35
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6	Attorney at Law	8	Exhibit 9 "On Talc Translocation from the 36
7	100 South 4th Street`		Vagina" article
8	Suite 600	9	
9	St. Louis, Missouri, 63102	10	Exhibit 10 Alterations in Gene Expression 37 article
10	caroline.tinsley@tuckerellis.com	11	arucic
11		12	Exhibit 11 Draft Screening Assessment, 12/18 38
12	Videographer:	13	Euklikis 10 (Dinden) Tele Astiele I CO
13	Joseph Morgas	14 15	Exhibit 12 (Binder) Talc Articles I 39
14		16	Exhibit 13 (Binder) Talc Articles II 39
15			(Exhibit 21 is inside Exhibit 13)
16		17	Pakitis 14 CV aCCould Bit 1 AVD 50
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18		20	Exhibit 16 9/24/18 e-mail string 76
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21		22	Exhibit 17 Rule 26 Expert Report of 90 Smith-Bindman, MD
1		23	Simur Dingillan, MD
22		_ 23	
23		24	Exhibit 18 The Association Between Talc Use 95
			Exhibit 18 The Association Between Talc Use 95 and Ovarian Cancer article

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1	EXHIBITS CONTINUED: PAGE	1 REBECCA SMITH-BINDMAN, M.D., VOLUME I,
2	Exhibit 19 NCI, SEER Training Modules 130	2 being first duly sworn or affirmed to testify to the
_	Risk Factors	3 truth, the whole truth, and nothing but the truth,
3 4	Exhibit 20 NCI article, Ovarian, Fallopian 132	4 was examined and testified as follows:
4	Tube and Primary Peritoneal	5 EXAMINATION BY COUNSEL FOR THE DEFENDANTS
5	Cancer Prevention PDQ-Health	6 BY MR. ZELLERS:
_	Professional Version	7 Q State your name.
6 7	Exhibit 21 Handwritten notes 156	8 A Rebecca Smith-Bindman.
,	(Inside Binder Exhibit 13)	9 Q Dr. Bindman, we are here today to take
8		your deposition in the talcum powder MDL litigation.
9	Exhibit 22 Genital Talc Exposure and Risk 179	11 Are you aware of that?
10	of Ovarian Cancer article	12 A I am.
11	Exhibit 23 Genital Powder Exposure article 179	13 Q Have you been deposed before?
12		14 A I have.
13 14	Exhibit 24 9/29/18 e-mail string 184	15 Q On how many occasions?
15	Exhibit 25 Perineal Talc Exposure article 189	16 A Three to four times.
16	1	17 Q Have you ever testified at trial?
17	Exhibit 26 Letter to Samuel Epstein, MD 203	18 A I have.
18 19	Exhibit 27 IARC Agents Classified by IARC 206	19 Q On how many occasions?
17	Monographs, Volumes 1-123	20 A One.
20		21 Q You are generally familiar with the rules
21		22 we're going to follow here today?
22 23		23 A I am.
24		Q If at any time I ask you a question or any
25		25 counsel asks you a question that you don't
	Page 11	_ 12
-		Page 13
1	San Francisco, California	1 understand, please don't answer it. Tell us you
2	San Francisco, California February 7, 2019	<ul> <li>understand, please don't answer it. Tell us you</li> <li>don't understand, and we'll rephrase the question or</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	San Francisco, California February 7, 2019 9:20 a.m.  REBECCA SMITH-BINDMAN, M.D., being first duly sworn or affirmed to testify to the truth, the whole truth, and nothing but the truth, was examined and testified as follows: THE VIDEOGRAPHER: We are now on the record. My name is Joseph morgue. I'm a videographer for Golkow Litigation Services. Today's date is February 7, 2019. The time on the video monitor is 9:20 a.m. This video deposition is being held at 1700 Montgomery Street, Suite 250, San Francisco, California, in the matter In Re: Johnson & Johnson Talcum Powder Products Marketing, Sales Practices, and Products Liability Litigation, for the United States District Court, for the District of New Jersey. The deponent is Dr. Rebecca Smith-Bindman. Counsel will be noted on the stenographic record.	understand, please don't answer it. Tell us you don't understand, and we'll rephrase the question or repeat it so it's clear to you.  Can you do that?  A I can. Q If you answer a question, is it fair for us to assume that you understood it? A It is. Q Please don't guess or speculate as to any answers. If you don't know the answer to a question or it would call you to guess or speculate, tell us. Can you do that? A I can. Q If at any time you need to take a break as we proceed through the day, please tell us. And once we finish whatever line of questioning we're involved with, then we will take a break. A Okay. Q Tell us the times that you have been deposed. When is the last time you were deposed? A I think approximately six years ago. Q What was the litigation or the matter?

	Page 14		Page 16
1	A but I can tell you in general what they	1	A And and I was deposed.
2	were about.	2	MS. O'DELL: Excuse me.
3	Q Tell us the three to four times that	3	Q (BY MR. ZELLERS) Yes. So three prior
4	you have been deposed, will you tell us what each of	4	litigations in which you served as an expert and you
5	those matters was?	5	were deposed; is that right?
6	A Yes. I am in addition to being an	6	A I
7	epidemiologist, I'm a clinical radiologist. And	7	MS. O'DELL: Object to the form. I think
8	each of those cases had to do with diagnosis and	8	she said four, but
9	communication within medical malpractice cases.	9	MR. ZELLERS: Well, she said three to
10	One case had to do with a delayed	10	four. But then when she was telling us about those
11	diagnosis of breast cancer and not communicating	11	cases
12	results.	12	A so I remember what was fourth case was.
13	One case had to do with a misdiagnosis of	13	Q (BY MR. ZELLERS) All right. What was the
14	a first trimester pregnancy loss.	14	fourth case?
15	One case had to do with misdiagnosis of a	15	A There was a case of delay in the diagnosis
16	complication of a twin/twin pregnancy. I think	16	of an ovarian cancer.
17	those are the cases I was deposed in.	17	Q Where was that case?
18	Q All of the cases in which you have been	18	A Somewhere in the middle of the country.
19	deposed previously have been medical malpractice	19	Q When did you testify in that case?
20	cases?	20	A I I only testified in a single case.
21	A Yes.	21	So it do you mean deposed?
22	Q Were those cases in which you had provided	22	Q Yes. When were you deposed in that case?
23	treatment to a patient or were they cases in which	23	A I sometime between all of the cases
24	you were an expert witness independent of that	24	were sometime between six and 12 years ago. I'm
25	particular plaintiff?	25	not
	Page 15		Page 17
1	A For each of those cases, I was an expert	1	Q All right. Did
2	witness. I had never personally been involved in a	2	A sure I remember the years.
3	medical malpractice cases.	3	Q The case in which you testified as an
4	Q Were each of those cases in the	4	expert witness in the delay of diagnosis of ovarian
5	San Francisco area or where were they located?	5	cancer, were you testifying for the defense or for
6	A None of those cases were in the	6	the mlaintiff?
		1	the plaintiff?
7	San Francisco area. One of them was in Huntsville	7	A I believe that case was for the defense.
8	Alabama, one was in Northern California, and one was	7 8	-
8 9	Alabama, one was in Northern California, and one was in Southern California.	8 9	<ul><li>A I believe that case was for the defense.</li><li>Q Do you remember the name of the plaintiff?</li><li>A I do not.</li></ul>
8	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those	8 9 10	<ul><li>A I believe that case was for the defense.</li><li>Q Do you remember the name of the plaintiff?</li><li>A I do not.</li><li>Q Do you remember the name of the defendant?</li></ul>
8 9 10 11	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?	8 9 10 11	<ul> <li>A I believe that case was for the defense.</li> <li>Q Do you remember the name of the plaintiff?</li> <li>A I do not.</li> <li>Q Do you remember the name of the defendant?</li> <li>A I do not.</li> </ul>
8 9 10 11 12	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not.	8 9 10 11 12	<ul> <li>A I believe that case was for the defense.</li> <li>Q Do you remember the name of the plaintiff?</li> <li>A I do not.</li> <li>Q Do you remember the name of the defendant?</li> <li>A I do not.</li> <li>Q Do you remember the name of the attorney</li> </ul>
8 9 10 11 12 13	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not.  Q Do you remember the name of the lawyer or	8 9 10 11 12 13	A I believe that case was for the defense.  Q Do you remember the name of the plaintiff?  A I do not.  Q Do you remember the name of the defendant?  A I do not.  Q Do you remember the name of the attorney who retained you?
8 9 10 11 12 13 14	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not.  Q Do you remember the name of the lawyer or lawyers that you worked with in those cases?	8 9 10 11 12 13 14	A I believe that case was for the defense.  Q Do you remember the name of the plaintiff?  A I do not.  Q Do you remember the name of the defendant?  A I do not.  Q Do you remember the name of the attorney who retained you?  A I do not.
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8 9 10 11 12 13 14 15 16 17	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not. Q Do you remember the name of the lawyer or lawyers that you worked with in those cases?  A I do not. Q Did you testify in those cases on behalf of the plaintiff or on behalf of a defendant? A They were split. So I have been involved	8 9 10 11 12 13 14 15 16 17	A I believe that case was for the defense.  Q Do you remember the name of the plaintiff?  A I do not.  Q Do you remember the name of the defendant?  A I do not.  Q Do you remember the name of the attorney who retained you?  A I do not.  Q Do you remember where in the middle of the country that case was pending?  A I do not.  Q You stated that you have testified one
8 9 10 11 12 13 14 15 16 17 18	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not. Q Do you remember the name of the lawyer or lawyers that you worked with in those cases?  A I do not. Q Did you testify in those cases on behalf of the plaintiff or on behalf of a defendant? A They were split. So I have been involved in cases on both slides.	8 9 10 11 12 13 14 15 16 17 18	A I believe that case was for the defense.  Q Do you remember the name of the plaintiff?  A I do not.  Q Do you remember the name of the defendant?  A I do not.  Q Do you remember the name of the attorney who retained you?  A I do not.  Q Do you remember where in the middle of the country that case was pending?  A I do not.  Q You stated that you have testified one time at trial; is that right?
8 9 10 11 12 13 14 15 16 17 18 19 20	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not. Q Do you remember the name of the lawyer or lawyers that you worked with in those cases?  A I do not. Q Did you testify in those cases on behalf of the plaintiff or on behalf of a defendant?  A They were split. So I have been involved in cases on both slides. Q Well, my understanding is you have been	8 9 10 11 12 13 14 15 16 17 18 19 20	A I believe that case was for the defense.  Q Do you remember the name of the plaintiff?  A I do not.  Q Do you remember the name of the defendant?  A I do not.  Q Do you remember the name of the attorney who retained you?  A I do not.  Q Do you remember where in the middle of the country that case was pending?  A I do not.  Q You stated that you have testified one time at trial; is that right?  A Yes.
8 9 10 11 12 13 14 15 16 17 18 19 20 21	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not. Q Do you remember the name of the lawyer or lawyers that you worked with in those cases?  A I do not. Q Did you testify in those cases on behalf of the plaintiff or on behalf of a defendant? A They were split. So I have been involved in cases on both slides.	8 9 10 11 12 13 14 15 16 17 18 19 20 21	A I believe that case was for the defense.  Q Do you remember the name of the plaintiff?  A I do not.  Q Do you remember the name of the defendant?  A I do not.  Q Do you remember the name of the attorney who retained you?  A I do not.  Q Do you remember where in the middle of the country that case was pending?  A I do not.  Q You stated that you have testified one time at trial; is that right?  A Yes.  Q Where did you testify at trial?
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not. Q Do you remember the name of the lawyer or lawyers that you worked with in those cases?  A I do not. Q Did you testify in those cases on behalf of the plaintiff or on behalf of a defendant?  A They were split. So I have been involved in cases on both slides.  Q Well, my understanding is you have been involved in three prior litigations; is that right	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A I believe that case was for the defense.  Q Do you remember the name of the plaintiff?  A I do not.  Q Do you remember the name of the defendant?  A I do not.  Q Do you remember the name of the attorney who retained you?  A I do not.  Q Do you remember where in the middle of the country that case was pending?  A I do not.  Q You stated that you have testified one time at trial; is that right?  A Yes.  Q Where did you testify at trial?  A That was Huntsville the Fayetteville,
8 9 10 11 12 13 14 15 16 17 18 19 20 21	Alabama, one was in Northern California, and one was in Southern California.  Q Do you remember the names of any of those cases?  A I do not. Q Do you remember the name of the lawyer or lawyers that you worked with in those cases?  A I do not. Q Did you testify in those cases on behalf of the plaintiff or on behalf of a defendant?  A They were split. So I have been involved in cases on both slides. Q Well, my understanding is you have been	8 9 10 11 12 13 14 15 16 17 18 19 20 21	A I believe that case was for the defense.  Q Do you remember the name of the plaintiff?  A I do not.  Q Do you remember the name of the defendant?  A I do not.  Q Do you remember the name of the attorney who retained you?  A I do not.  Q Do you remember where in the middle of the country that case was pending?  A I do not.  Q You stated that you have testified one time at trial; is that right?  A Yes.  Q Where did you testify at trial?

	Page 18		Page 20
1	A For the plaintiff.	1	A Yes.
2	Q Do you remember how long ago it was?	2	Q You are not testifying here today as a
3	A In the ballpark of seven or eight years	3	radiologist; is that right?
4	ago.	4	MS. O'DELL: Object to the form.
5	Q The Northern California case that you gave	5	A I think some of my experiences as a
6	deposition testimony in that in, was that for the	6	radiologist are highly relevant to my expertise, and
7	plaintiff or the defense?	7	so there are some questions that I think that that
8	A I don't remember.	8	is very relevant.
9	Q Southern California, that medical	9	Q (BY MR. ZELLERS) Are there any areas in
10	malpractice case, did you testify for the plaintiff	10	which you anticipate providing expert testimony in
11	or the defense?	11	this litigation, other than in the areas of
12	A Can I go back? I I do remember.	12	epidemiology and radiology?
13	So the Northern California case was the	13	MS. O'DELL: Object to the form.
14	plaintiff. The Southern California case was the	14	A I mentioned ovarian cancer. So risk
15	defense.	15	factors for ovarian cancer falls into epidemiology.
16	Q Do you remember the attorneys that you	16	The mechanism of ovarian cancer, the
17	worked with in the Northern California case?	17	pathophysiology, the biological processes are not
18	A I do not.	18	technically epidemiology. They're related, and so
19	Q The Southern California case?	19	some of my opinions, I think, would fall into that
20	A I do not.	20	category.
21	Q Do you remember the name of any of the	21	Q (BY MR. ZELLERS) How would you define that
22	parties in any of the cases in which you have either	22	area of expertise for which you are providing expert
23	given deposition testimony in or trial testimony in?	23	opinions?
24	A I do not.	24	MS. O'DELL: Object to the form.
25	Q Today I'm going to ask you questions about	25	Q (BY MR. ZELLERS) We have got that you are
	Page 19		Page 21
1	talcum powder or baby powder. Can we agree that	1	going to provide expert opinions relating to
2	when I refer during the deposition to products, to	2	epidemiology. You're going to provide expert
3	talc products, talcum powder products, baby powder,	3	opinions relating to radiology.
4	or Shower to Shower at issue in this MDL, that I am	1 1	
_		4	Are there any other areas that you intend
5	referring to the baby powder product manufactured by	5	to provide expert opinions in?
5 6	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the	5 6	to provide expert opinions in?  MS. O'DELL: Other than what she has just
5 6 7	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly	5 6 7	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?
5 6	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the	5 6 7 8	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than
5 6 7 8 9	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly manufactured by Johnson & Johnson Consumer Products, Inc.?	5 6 7 8 9	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than epidemiology and radiology.
5 6 7 8 9	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly manufactured by Johnson & Johnson Consumer Products, Inc.?  A Yes.	5 6 7 8 9	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than epidemiology and radiology.  MS. O'DELL: Object to the form. She gave
5 6 7 8 9 10 11	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly manufactured by Johnson & Johnson Consumer Products, Inc.?  A Yes.  Q How would you define the area of expertise	5 6 7 8 9 10 11	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than epidemiology and radiology.  MS. O'DELL: Object to the form. She gave another a host a suite of things she expected
5 6 7 8 9 10 11	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly manufactured by Johnson & Johnson Consumer Products, Inc.?  A Yes.  Q How would you define the area of expertise in which you were offering opinions in this case,	5 6 7 8 9 10 11	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than epidemiology and radiology.  MS. O'DELL: Object to the form. She gave another a host a suite of things she expected to testify on, but
5 6 7 8 9 10 11 12 13	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly manufactured by Johnson & Johnson Consumer Products, Inc.?  A Yes.  Q How would you define the area of expertise in which you were offering opinions in this case, "this case" being the talc MDL?	5 6 7 8 9 10 11 12 13	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than epidemiology and radiology.  MS. O'DELL: Object to the form. She gave another a host a suite of things she expected to testify on, but  MR. ZELLERS: And so
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly manufactured by Johnson & Johnson Consumer Products, Inc.?  A Yes.  Q How would you define the area of expertise in which you were offering opinions in this case, "this case" being the talc MDL?  A I was asked to provide an expert review in the area of epidemiology, ovarian cancer and its causes, the health effects of talc powder products. I think those are the main areas.  Q Are are you testifying today as an epidemiologist?  A Yes.  MS. O'DELL: Object to A Am	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than epidemiology and radiology.  MS. O'DELL: Object to the form. She gave another a host a suite of things she expected to testify on, but  MR. ZELLERS: And so  MS. O'DELL: I'll object to the form.  MR. ZELLERS: yeah, thank you.  A Could you repeat back to me what I have already said?  Q (BY MR. ZELLERS) No. I'm asking you what you are going to provide expert testimony in, what you consider yourself to be an expert in.  I understand epidemiology, and I understand the epidemiology opinions you are going
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly manufactured by Johnson & Johnson Consumer Products, Inc.?  A Yes.  Q How would you define the area of expertise in which you were offering opinions in this case, "this case" being the talc MDL?  A I was asked to provide an expert review in the area of epidemiology, ovarian cancer and its causes, the health effects of talc powder products. I think those are the main areas.  Q Are are you testifying today as an epidemiologist?  A Yes.  MS. O'DELL: Object to  A Am  MS. O'DELL: the form.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than epidemiology and radiology.  MS. O'DELL: Object to the form. She gave another a host a suite of things she expected to testify on, but  MR. ZELLERS: And so  MS. O'DELL: I'll object to the form.  MR. ZELLERS: yeah, thank you.  A Could you repeat back to me what I have already said?  Q (BY MR. ZELLERS) No. I'm asking you what you are going to provide expert testimony in, what you consider yourself to be an expert in.  I understand epidemiology, and I understand the epidemiology opinions you are going to give, relate to whether or not talcum powder is
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	referring to the baby powder product manufactured by Johnson & Johnson Consumer Products, Inc., and the Shower to Shower product that was formerly manufactured by Johnson & Johnson Consumer Products, Inc.?  A Yes.  Q How would you define the area of expertise in which you were offering opinions in this case, "this case" being the talc MDL?  A I was asked to provide an expert review in the area of epidemiology, ovarian cancer and its causes, the health effects of talc powder products. I think those are the main areas.  Q Are are you testifying today as an epidemiologist?  A Yes.  MS. O'DELL: Object to A Am	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to provide expert opinions in?  MS. O'DELL: Other than what she has just described?  Q (BY MR. ZELLERS) Well, other than epidemiology and radiology.  MS. O'DELL: Object to the form. She gave another a host a suite of things she expected to testify on, but  MR. ZELLERS: And so  MS. O'DELL: I'll object to the form.  MR. ZELLERS: yeah, thank you.  A Could you repeat back to me what I have already said?  Q (BY MR. ZELLERS) No. I'm asking you what you are going to provide expert testimony in, what you consider yourself to be an expert in.  I understand epidemiology, and I understand the epidemiology opinions you are going

	Page 22		Page 24
1	those are epidemiology-based opinions.	1	Q not an expert well and let me
2	I also understand that you have a your	2	withdraw that.
3	training and your background is in radiology and	3	You have produced an expert report in this
4	that you will provide, to the extent relevant,	4	case; is that right?
5	radiology opinions.	5	A I have.
6	But you're not testifying here today as a	6	Q Let's mark a couple of things at the
7	gynecologic oncologist, are you?	7	outset.
8	A I am not.	8	Deposition Exhibit 1 is copy of the Notice
9	Q You are not testifying here today as an	9	of Deposition.
10	expert in asbestos; is that fair?	10	(Exhibit 1 was marked for identification
11	MS. O'DELL: Object to the form.	11	and is attached to the transcript.)
12	A I am going to provide opinions, if asked,	12	MS. O'DELL: Thank you.
13	about the health effects of asbestos.	13	Q (BY MR. ZELLERS) Have you seen the Notice
14	Q (BY MR. ZELLERS) Are you an expert or do	14	of Deposition prior to today?
15	you consider yourself to be an expert in asbestos?	15	A Yes, I have.
16	MS. O'DELL: Object to the form.	16	Q Have you either brought with you or
17	A The question is about asbestos, in	17	through counsel have they brought all of the
18	general, and I consider myself an expert on the	18	materials that you believe are responsive to the
19	health effects of asbestos.	19	Deposition Notice?
20	Q (BY MR. ZELLERS) Does that mean that you	20	MR. ZELLERS: And, Ms. O'Dell, I recognize
21	are an expert in asbestos or simply looking at	21	that you have objected to the Deposition Notice and
22	studies that have evaluated the epidemiology of	22	the record will reflect that.
23	asbestos and asbestos exposure to certain	23	MS. O'DELL: And just so I have a chance
24	conditions?	24	to say something, we'll just reassert those
25	MS. O'DELL: Object to the form.	25	objections now.
	Page 23		Page 25
1			
_	A I think there are a lot of acts aspects	1	Dr. Smith-Bindman has brought with her
2	A I think there are a lot of acts — aspects of asbestos, so I would absolutely not consider	1 2	Dr. Smith-Bindman has brought with her documents subject to our objections.
			<del>_</del>
2	of asbestos, so I would absolutely not consider	2	documents subject to our objections.
2	of asbestos, so I would absolutely not consider myself an expert on the geology of asbestos or in the mechanism of mining asbestos.  But I would consider myself an expert on	2 3	documents subject to our objections.  MR. ZELLERS: And I would really like
2 3 4	of asbestos, so I would absolutely not consider myself an expert on the geology of asbestos or in the mechanism of mining asbestos.  But I would consider myself an expert on the changes to the body that can be the result of	2 3 4	documents subject to our objections.  MR. ZELLERS: And I would really like Dr. Smith-Bindman to answer the question.  MS. O'DELL: I'm sure she's ready to do that.
2 3 4 5 6 7	of asbestos, so I would absolutely not consider myself an expert on the geology of asbestos or in the mechanism of mining asbestos.  But I would consider myself an expert on the changes to the body that can be the result of exposure to asbestos in the context of epidemiology	2 3 4 5	documents subject to our objections.  MR. ZELLERS: And I would really like Dr. Smith-Bindman to answer the question.  MS. O'DELL: I'm sure she's ready to do that.  A To the best of my knowledge, I have
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#### Page 26 Page 28 Q (BY MR. ZELLERS) Does your report in this 1 1 Q Okay. Right now all I want to do is get a 2 matter, Deposition Exhibit 2, contain all of the 2 list of what you have looked at and considered since 3 3 opinions that you intend to offer at trial or at any you prepared your report. 4 hearing in this matter? 4 A I have seen an updated testing report by 5 5 A The report summarizes my opinions. I have Mr. Longo. 6 6 written in the report. As new information comes I have seen a report and deposition by 7 available, I may take that into account as well. 7 Mr. Cooke. I -- I think those are the... 8 So when we began, counsel mentioned a few 8 Q You -- counsel for Plaintiffs, Ms. O'Dell, 9 9 additional papers that I had seen since the time my told me before the deposition that you also have 10 report was written. And so those are -- are --10 looked at a health assessment from Health Canada or 11 11 won't -- have not changed my views, but those are a risk assessment; is -- is that correct? 12 not necessarily referenced in this report. 12 A Yes, that's correct. 13 13 Q All right. Did you also look at a Q In terms of your opinions and the opinions 14 that you expect to render in this matter, either at 14 meta-analysis that was performed or at least the 15 trial or any hearing, those opinions are contained 15 draft of a meta-analysis by the first name, author, 16 in your report which we marked as Exhibit 2, 16 Thayer (phonetic)? 17 17 A I -- I saw that report briefly. correct? MS. O'DELL: Object to the form. 18 18 Q Anything else that you have reviewed 19 19 A I have not, since writing my report, seen and/or considered that is not included in the 20 any documents that have changed my opinions. 20 materials that you reference either in your list of 21 But as I continue to keep up with the 21 references or in your Materials Considered List? 22 published literature, my opinions may reflect 22 A There was also a series of reports in --23 changing documents that I have seen since the time 23 in The New York Times and Reuters and a summary of 24 24 that in the BMJ, which I have seen since I have my report was generated. 25 25 issued my report. Page 27 Page 29 1 Q (BY MR. ZELLERS) All I can do is ask you 1 Q Are you basing any of your opinions on the 2 2 questions today. As of today, does your report Reuters or New York Times articles? 3 3 contain the opinions that you expect to provide at A Those reports support my opinions, but no, 4 any trial or hearing in this matter? 4 I'm not basing my report on -- on those. 5 5 A Yes, they do. Q Ms. O'Dell also provided me with a list 6 6 Q My understanding from one of your prior materials that she has represented that you have 7 7 answers is that you have reviewed some additional reviewed since you prepared your report. 8 materials since you prepared and signed your report 8 It's a series of Imerys documents. It's 9 on or about November 15 of 2018; is that right? 9 one J&J produced document. And then the last item 10 10 A That is correct. listed is an Amended Expert Report of Robert Cooke. 11 Q Those materials, you believe, support the 11 Have you reviewed those materials since 12 opinions that you have put in your report, but have 12 preparing your report? 13 13 A So yes, the -- the Mr. Cooke report, which not changed your opinions; is --14 A It --14 is one I mentioned. Yes, I have seen the Imerys 15 15 report. And I can't remember what you said, the Q -- that right? 16 A -- that's correct. 16 Johnson & Johnson? 17 Q What new or additional materials have you 17 Q Are those additional documents or 18 reviewed and considered since preparing your report 18 materials that you have reviewed since preparing 19 on November 15, 2018? 19 20 A So I have seen a draft of a publication --20 A I'm sorry. I understand the question. I 21 submitted for publication by Dr. Saed about the 21 don't remember what the Johnson & Johnson material 22 cellular and molecular changes to cell lines of 22 23 being exposed to various talcum powder products, 23 Q I --24 24 A You listed it. I just don't -which I think is an important paper that has 25 influenced my views. 25 Q -- well, I didn't --

	Page 30		Page 32
1	A remember that.	1	is that right?
2	Q list it. This was a list that was	2	A Yes, I did.
3	prepared and provided to me by counsel for	3	MS. O'DELL: Object to the form.
4	Plaintiffs so	4	Q (BY MR. ZELLERS) You asked for documents
5	MS. O'DELL: But I don't think he	5	that were both positive and negative relating that
6	characterized the documented in any way other than	6	testing; is that right?
7	the Bates number, so so it's a J&J document	7	A Yes.
8	A What is that item?	8	Q Do you believe that you have now seen, as
9	MS. O'DELL: that's just the Bates	9	part of your review, all documents relating to the
10	number for that particular document. And it's	10	testing of Johnson's baby powder and/or Shower to
11	the the test results that you reviewed yesterday.	11	Shower powder?
12	A Yes.	12	A I
13	(Exhibit 3 was marked for identification	13	MS. O'DELL: Object to the form.
14	and is attached to the transcript.)	14	A I do not believe I have seen the
15	Q (BY MR. ZELLERS) Are all of the documents	15	entirety of the testing results.
16	contained on Exhibit 3, the a listing that was	16	Q (BY MR. ZELLERS) Was it your request that
17	put together by counsel for the Plaintiffs,	17	you see whatever pertinent documents that were
18	documents that you reviewed yesterday in preparation	18	relating to the testing of the baby powder?
19	for your deposition today?	19	A It was not my request. I wanted to
20	A Yes.	20	understand, in general, what kind of testing had
21	Q Are those documents that were selected by	21	been done. I I was not planning to delve into
22	plaintiffs' counsel to show you to help prepare you	22	the entirety of testing.
23	for the deposition?	23	Q Any other materials that you have reviewed
24	MS. O'DELL: Object to the form.	24	prior strike that subsequent to preparing your
25	A The document are ones that I asked for to	25	report, which we marked as Exhibit 2?
	Page 31		Page 33
1	see testing results, both positive and negative,	1	A None that come to mind.
2	from Johnson & Johnson. So I requested documents	2	Q You have brought with you here today
3	that would show that, and I believe that's what each	3	several notebooks and it looks like a blue folder;
4	of these were provided for.	4	is that right?
5	Q When did you make that request to		
6	Q When did you make that request to	5	A Yes.
O	plaintiffs' counsel?	5 6	A Yes.  Q What is contained in the blue folder that
7			
	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can	6	Q What is contained in the blue folder that
7	plaintiffs' counsel?	6 7 8 9	Q What is contained in the blue folder that you brought here today?
7	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the	6 7 8	<ul><li>Q What is contained in the blue folder that you brought here today?</li><li>A Primarily in the blue folder are either</li></ul>
7 8 9	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with	6 7 8 9 10 11	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that — in preparation for the deposition, I went through my
7 8 9 10	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would	6 7 8 9 10 11 12	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in
7 8 9 10 11	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.	6 7 8 9 10 11 12 13	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with
7 8 9 10 11 12	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?	6 7 8 9 10 11 12 13 14	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with Q So
7 8 9 10 11 12	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the	6 7 8 9 10 11 12 13 14	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with  Q So  A me.
7 8 9 10 11 12 13	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the	6 7 8 9 10 11 12 13 14 15	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with  Q So  A me.  Q in the blue folder are materials that
7 8 9 10 11 12 13 14	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the substance of the discussions, I would have ask you	6 7 8 9 10 11 12 13 14 15 16	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with  Q So  A me.  Q in the blue folder are materials that you pulled out to have available for the deposition
7 8 9 10 11 12 13 14 15	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the substance of the discussions, I would have ask you not to  A Okay.  MS. O'DELL: testify to those.	6 7 8 9 10 11 12 13 14 15 16 17	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that — in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with —  Q So —  A — me.  Q — in the blue folder are materials that you pulled out to have available for the deposition today for your use as needed in responding to
7 8 9 10 11 12 13 14 15 16 17	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the substance of the discussions, I would have ask you not to  A Okay.	6 7 8 9 10 11 12 13 14 15 16 17 18	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that — in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with —  Q So —  A — me.  Q — in the blue folder are materials that you pulled out to have available for the deposition today for your use as needed in responding to questions that were asked?
7 8 9 10 11 12 13 14 15 16 17	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the substance of the discussions, I would have ask you not to  A Okay.  MS. O'DELL: testify to those.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that — in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with —  Q So —  A — me.  Q — in the blue folder are materials that you pulled out to have available for the deposition today for your use as needed in responding to questions that were asked?  A Yes, that's correct.
7 8 9 10 11 12 13 14 15 16 17 18	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the substance of the discussions, I would have ask you not to  A Okay.  MS. O'DELL: testify to those.  Q (BY MR. ZELLERS) My question again is: When did you make the request for the documents that are identified on Exhibit 3?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with Q So A me. Q in the blue folder are materials that you pulled out to have available for the deposition today for your use as needed in responding to questions that were asked?  A Yes, that's correct. Q Can I see you blue folder, please? And,
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the substance of the discussions, I would have ask you not to  A Okay.  MS. O'DELL: testify to those.  Q (BY MR. ZELLERS) My question again is:  When did you make the request for the documents that are identified on Exhibit 3?  A I believe it was a few weeks ago.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with Q So A me.  Q in the blue folder are materials that you pulled out to have available for the deposition today for your use as needed in responding to questions that were asked?  A Yes, that's correct.  Q Can I see you blue folder, please? And, Dr. Smith-Bindman, have you taken any medications
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the substance of the discussions, I would have ask you not to  A Okay.  MS. O'DELL: testify to those.  Q (BY MR. ZELLERS) My question again is:  When did you make the request for the documents that are identified on Exhibit 3?  A I believe it was a few weeks ago.  Q You made a request for testing documents	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with Q So A me.  Q in the blue folder are materials that you pulled out to have available for the deposition today for your use as needed in responding to questions that were asked?  A Yes, that's correct.  Q Can I see you blue folder, please? And, Dr. Smith-Bindman, have you taken any medications that impair your ability to answer questions today?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	plaintiffs' counsel?  MS. O'DELL: And Mr. Zellers is he can ask you when you made the request. In terms of the specifics of the request or conversations with counsel, those would be protected, and I would instruct you not to to disclose those.  A To not say when I read the request?  MS. O'DELL: You can say when you gave the request. But the substance of the request or the substance of the discussions, I would have ask you not to  A Okay.  MS. O'DELL: testify to those.  Q (BY MR. ZELLERS) My question again is:  When did you make the request for the documents that are identified on Exhibit 3?  A I believe it was a few weeks ago.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q What is contained in the blue folder that you brought here today?  A Primarily in the blue folder are either additional documents that I have reviewed since I wrote my report, but also a few documents that in preparation for the deposition, I went through my report and pulled some articles to look at in greater depth, and so I brought those with Q So A me.  Q in the blue folder are materials that you pulled out to have available for the deposition today for your use as needed in responding to questions that were asked?  A Yes, that's correct.  Q Can I see you blue folder, please? And, Dr. Smith-Bindman, have you taken any medications

	Page 34		Page 36
1	blue folder is a document, "Reproductive Sciences"	1	Are those your notations?
2	at the top, "Molecular basis Supporting the	2	A Yes, they are.
3	Association of Talcum Powder Use with Increased Risk	3	Q All right. We'll mark that as Exhibit 7.
4	of Ovarian Cancer."	4	(Exhibit 7 was marked for identification
5	The first named author is Nicole Fletcher.	5	and is attached to the transcript.)
6	And is this the article by Dr. Saed that	6	(Exhibit 8 was marked for identification
7	you sold me about?	7	and is attached to the transcript.)
8	A Yes, it is.	8	Q (BY MR. ZELLERS) Exhibit 8 are the
9	Q There are a number of notes and	9	classifications of the International Agency for
10	highlighting that are contained in the document.	10	Research on Cancer or IARC.
11	Are all of those your notes and highlighting?	11	Are you generally familiar with the IARC
12	A They are.	12	classifications relating to the carcino
13	Q We'll mark your copy of Dr. Saed's paper	13	carcinogenicity of different agents?
14	as Exhibit 4.	14	A I am.
15	(Exhibit 4 was marked for identification	15	Q The next document in your folder that also
16	and is attached to the transcript.)	16	has some underlining and highlighting is on "Talc
17	Q (BY MR. ZELLERS) The next paper in your	17	Translocation from the Vagina to the Oviducts and
18	blue folder that you brought here today is a	18	Beyond."
19	document with the first named author, Fiume,	19	(Exhibit 9 was marked for identification
20	FIUME. The title is "Safety Assessment of Talc	20	and is attached to the transcript.)
21	as Used in Cosmetics."	21	Q (BY MR. ZELLERS) This is an article that
22	It appeared in the International Journal	22	was published in 1985. The first named author is
23	of Toxicology. Again, there's highlighting in the	23	A.P. Wehner.
24	document and underlying lining.	24	Is this also a document that you brought
25	Did you do the highlighting and did you do	25	here today?
	Page 35		Page 37
1	the underlining in this document?	1	A It is.
2	A Yes, I did.	2	Q The highlighting in the document, is that
3	Q We'll mark that document, your copy, as	3	your document strike that.
4	Exhibit 5.	4	Is that your highlighting?
5	(Exhibit 5 was marked for identification	5	A It it is.
6	and is attached to the transcript.)	6	Q Are all of these documents either on your
7	Q (BY MR. ZELLERS) I see here that there is	7	reference list or on your Materials Considered List,
8	the IARC monograph dated 2010 on the evaluation of	8	other than what you told us about at the start of
9	carcinogenic risk to humans.	9	the deposition?
10	The bottom part of page 1 is torn off. Do	10	A Yes.
11	you know why that is?	11	Q We have Deposition Exhibit 47 from the
12	A I do not.	12	Pier deposition. I will not mark that.
13	Q All right. So the first page gives a date	13	We have an article here by Shukla,
14	reference of 2010. The second page gives well,	14	S H U K L A, "Alterations in Gene Expression in
4 -	it used here a while date and a Will date. There is	15	Human Mesothelial Cells Correlate with Mineral
15	it also lists a 2006 date and a 2010 date. There is	1 -	
16	highlighting throughout.	16	Pathogenicity."
16 17	highlighting throughout.  Whose highlighting is contained in the	17	(Exhibit 10 was marked for identification
16 17 18	highlighting throughout.  Whose highlighting is contained in the document that we'll mark as Exhibit 6?	17 18	(Exhibit 10 was marked for identification and is attached to the transcript.)
16 17 18 19	highlighting throughout.  Whose highlighting is contained in the document that we'll mark as Exhibit 6?  A That would be mine.	17 18 19	(Exhibit 10 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) Is that a document that
16 17 18 19 20	highlighting throughout.  Whose highlighting is contained in the document that we'll mark as Exhibit 6?  A That would be mine.  (Exhibit 6 was marked for identification	17 18 19 20	(Exhibit 10 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) Is that a document that you brought here today?
16 17 18 19 20 21	highlighting throughout.  Whose highlighting is contained in the document that we'll mark as Exhibit 6?  A That would be mine.  (Exhibit 6 was marked for identification and is attached to the transcript.)	17 18 19 20 21	(Exhibit 10 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) Is that a document that you brought here today?  A Yes, it is.
16 17 18 19 20 21 22	highlighting throughout.  Whose highlighting is contained in the document that we'll mark as Exhibit 6?  A That would be mine.  (Exhibit 6 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) We then have a news	17 18 19 20 21 22	(Exhibit 10 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) Is that a document that you brought here today?  A Yes, it is.  Q Are the highlights and writing on that
16 17 18 19 20 21 22	highlighting throughout.  Whose highlighting is contained in the document that we'll mark as Exhibit 6?  A That would be mine.  (Exhibit 6 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) We then have a news article from the British Medical Journal that was	17 18 19 20 21 22 23	(Exhibit 10 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) Is that a document that you brought here today?  A Yes, it is.  Q Are the highlights and writing on that document yours?
16 17 18 19 20 21 22	highlighting throughout.  Whose highlighting is contained in the document that we'll mark as Exhibit 6?  A That would be mine.  (Exhibit 6 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) We then have a news	17 18 19 20 21 22	(Exhibit 10 was marked for identification and is attached to the transcript.)  Q (BY MR. ZELLERS) Is that a document that you brought here today?  A Yes, it is.  Q Are the highlights and writing on that

	Page 38		Page 40
1	published in is that Phytotherapy Research,	1	Q Did you have any staff that helped you in
2	2007; is that right?	2	terms of your review of materials and preparation of
3	A Yes.	3	your report other other than Dr. Hall?
4	Q There do not appear to be any handwriting	4	A I had a copy editor once I had a draft
5	on that document, so I won't mark it.	5	of my report review it.
6	We have got the Hopkins Deposition	6	Q Who is your copy editor?
7	Exhibit 28. There's no highlighting on that	7	A Her name is Chris Tachibana.
8	document.	8	Q And where is she employed?
9	And then we have the "Draft Screening	9	A She is a freelance medical copy editor.
10	Assessment" from Health Canada dated December 2018.	10	Q What role did she play in your review and
11	Is the highlighting in that document	11	analysis of materials and your the preparation of
12	yours?	12	your report?
13	A Yes, it is.	13	A So she played no role in the review or
14	Q All right. We'll mark that as	14	the drafting of the report, but she reviewed a draft
15	Deposition Exhibit 11.	15	near the end for grammatical issues to remove
16	(Exhibit 11 was marked for identification	16	redundancy.
17	and is attached to the transcript.)	17	She's someone I work with a great deal for
18	Q (BY MR. ZELLERS) Have we covered all of	18	my medical publications, and so
19	the documents that you have brought with you today	19	Q You have worked with her in the past I
20	in your blue folder?	20	
21	A Yes.	21	A That's right
22	Q All right. Let me see your two notebooks	22	Q is that right?
23	that you also have brought with you today. One	23	A yes.
24	notebook is "Talc Articles I." The second notebook	24	Q Is she here in the San Francisco area?
25	is "Talc Articles II."	25	A She is not.
	Davis 20		Da 41
	Page 39		Page 41
1	Are all of the articles that are contained	1	Q Where is she located?
2	in these two notebooks, articles that are contained	2	A She splits her time between Seattle,
3	either on your reference list or on your reliance	3	Washington, and Germany.
4	materials list?	4	Q She charges for her services; is that
5	A Yes, they are.	5	right?
6	Q As I go through this quickly, it appears	6	A She does.
7	that there is underlining and highlighting of the	7	Q Are those charges that you paid or that
8	articles that you have brought here today; is that	8	were paid by plaintiffs' counsel?
9	right?	9	A They have not yet been paid, but the plan
10	A Yes, it is.	10	is for her to submit those invoices. And it will
11	Q Is all of the highlighting and underlining	11	come out of my fees, but will be paid by the
12	and marking, are those your highlights and marking?	12	counsel.
13	A Yes, they are.	13	Q All right. When you submit invoices,
14	Q Who prepared the notebooks? And let's	14	will the charges for the copy editor, will those
15	mark Talc Articles I, the entire notebook as	15	be included in your invoice to plaintiffs' counsel?
16	Exhibit 12.	16	A My plan is for it to come out of my fee.
17	(Exhibit 12 was marked for identification	17	So I am paying for it, but it should be literally
18	and is attached to the transcript.)	18	paid by counsel, since I'm not able to pay and
19	Q (BY MR. ZELLERS) Talc Articles II, the	19	deduct taxes or pay taxes or or so or
20	entire notebook, as Exhibit 13.	20	Q All right. You will pay it out of your
21	(Exhibit 13 was marked for identification	21	pocket and will not include it on your statement to
22	and is attached to the transcript.)	22	plaintiffs' counsel; is that right?
23	Q (BY MR. ZELLERS) Who prepared Exhibits 12	23	A That's correct.
24	and 13 for you?	24	Q Approximately how much have you paid or
	•	25	will you pay to your copy editor?
25	A I did.		

	Page 42		Page 44
1	A I believe the total is in the ballpark of	1	Q What did that lawyer tell you or ask you
2	about 1,500 or \$1,700.	2	about this engagement?
3	Q How about Dr. hall? Are her fees being	3	A They told me that there was a a case
4	paid by you or are they being paid by plaintiffs'	4	that they would like some epidemiology research on
5	counsel?	5	and that they thought I would be a very good fit and
6	A Her fees are being paid by counsel.	6	would I be willing to speak with them.
7	Q Dr. Hall either has or will submit her own	7	I don't believe they even told me what the
8	separate invoice relating to her work on this	8	content of of the case was about, but rather,
9	matter?	9	that it was a case. And the role that they were
10	A Yes.	10	seeking was as an epidemiologist, not as a
11	Q Has she already done that?	11	radiologist or on the medical care.
12	A I believe she has submitted it. I I'm	12	Q Was this a phone call or an e-mail or how
13	not 100 percent sure.	13	did they contact you?
14	Q Do you know what Dr. Hall's fees are at	14	A I believe it was a short e-mail followed
15	least through the present time relating to her work	15	by a short phone call.
16	on this matter?	16	Q I mean, do you keep those e-mails? And if
17	A I believe the amount is in the ballpark of	17	at some point we ask for them to be produced, is
18	the same 1,500 to \$2,000.	18	that something you could do?
19	Q You believe, though, that Dr. Hall either	19	A For the particular e-mail that you are
20	has or will be submitting invoice an invoice	20	asking about, I cannot find it. So I don't have
21	separately for her work to plaintiffs' counsel; is	21	that. I looked.
22	that right?	22	Q You were contacted by a lawyer or law
23	A Yes.	23	firm, asked if you would be willing.
24	Q You have submitted invoices; is that	24	You said you would be willing without even
25	right?	25	knowing what the matter related to?
	Page 43		Page 45
1	A I have.	1	A I didn't say I would be willing to be an
2	Q When were you first retained in this	2	expert. I said I would be willing to have a
3	matter well, strike that.	3	conversation with the lawyers to learn about the
4	When were you first contacted with	4	case.
5	respect to this litigation, the talcum powder MDL?	5	Q Were you told at that time that the case
6	A My recollection is mid-2017.	6	related to talcum powder?
7	Q Who contacted you in mid-2017?	7	A I was not.
8	A I was initially contacted by a law firm	8	Q Were you told at that time that the
^	that i believe was helping the law firms find expert	9	medical issue in the case related to ovarian cancer?
9		1	medical light in the case related to ovariant cancer.
10	witnesses and asked if I would be willing to speak	10	A I do not believe I was.
10 11	witnesses and asked if I would be willing to speak with them to see if this could be something that I	10 11	<ul><li>A I do not believe I was.</li><li>Q What is the next contact then that you had</li></ul>
10 11 12	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.	10 11 12	A I do not believe I was.  Q What is the next contact then that you had with any lawyer relating to this matter?
10 11 12 13	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you	10 11 12 13	A I do not believe I was.  Q What is the next contact then that you had with any lawyer relating to this matter?  A So then a phone call was set up between
10 11 12 13 14	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you initially in mid-2017?	10 11 12 13 14	A I do not believe I was.  Q What is the next contact then that you had with any lawyer relating to this matter?  A So then a phone call was set up between myself and, I believe it was, three lawyers involved
10 11 12 13 14 15	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you initially in mid-2017?  A I I don't remember that initial	10 11 12 13 14 15	A I do not believe I was.  Q What is the next contact then that you had with any lawyer relating to this matter?  A So then a phone call was set up between myself and, I believe it was, three lawyers involved in this litigation and told about the what the
10 11 12 13 14 15	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you initially in mid-2017?  A I I don't remember that initial contact.	10 11 12 13 14 15 16	A I do not believe I was. Q What is the next contact then that you had with any lawyer relating to this matter? A So then a phone call was set up between myself and, I believe it was, three lawyers involved in this litigation and told about the what the what the case was about and told what they were
10 11 12 13 14 15 16	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you initially in mid-2017?  A I I don't remember that initial contact.  Q You don't remember the name of the lawyer	10 11 12 13 14 15 16 17	A I do not believe I was. Q What is the next contact then that you had with any lawyer relating to this matter? A So then a phone call was set up between myself and, I believe it was, three lawyers involved in this litigation and told about the what the what the case was about and told what they were looking for to see if I would be interested in
10 11 12 13 14 15 16 17	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you initially in mid-2017?  A I I don't remember that initial contact.  Q You don't remember the name of the lawyer or the law firm that initially contacted you in this	10 11 12 13 14 15 16 17	A I do not believe I was. Q What is the next contact then that you had with any lawyer relating to this matter? A So then a phone call was set up between myself and, I believe it was, three lawyers involved in this litigation and told about the what the what the case was about and told what they were looking for to see if I would be interested in speaking with them.
10 11 12 13 14 15 16 17 18	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you initially in mid-2017?  A I I don't remember that initial contact.  Q You don't remember the name of the lawyer or the law firm that initially contacted you in this matter?	10 11 12 13 14 15 16 17 18	A I do not believe I was.  Q What is the next contact then that you had with any lawyer relating to this matter?  A So then a phone call was set up between myself and, I believe it was, three lawyers involved in this litigation and told about the what the what the case was about and told what they were looking for to see if I would be interested in speaking with them.  And that lead to an in-person meeting
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10 11 12 13 14 15 16 17 18 19 20 21 22	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you initially in mid-2017?  A I — I don't remember that initial contact.  Q You don't remember the name of the lawyer or the law firm that initially contacted you in this matter?  A The initial law firm basically asked me if I would be willing to speak to these lawyers, and I do not know the name of that lawyer who originally	10 11 12 13 14 15 16 17 18 19 20 21	A I do not believe I was.  Q What is the next contact then that you had with any lawyer relating to this matter?  A So then a phone call was set up between myself and, I believe it was, three lawyers involved in this litigation and told about the what the what the case was about and told what they were looking for to see if I would be interested in speaking with them.  And that lead to an in-person meeting where we then discussed what the case was about.  Q When was the phone call with the three attorneys?
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10 11 12 13 14 15 16 17 18 19 20 21 22	witnesses and asked if I would be willing to speak with them to see if this could be something that I would be interested in doing.  Q What law firm or lawyer contacted you initially in mid-2017?  A I — I don't remember that initial contact.  Q You don't remember the name of the lawyer or the law firm that initially contacted you in this matter?  A The initial law firm basically asked me if I would be willing to speak to these lawyers, and I do not know the name of that lawyer who originally	10 11 12 13 14 15 16 17 18 19 20 21	A I do not believe I was.  Q What is the next contact then that you had with any lawyer relating to this matter?  A So then a phone call was set up between myself and, I believe it was, three lawyers involved in this litigation and told about the what the what the case was about and told what they were looking for to see if I would be interested in speaking with them.  And that lead to an in-person meeting where we then discussed what the case was about.  Q When was the phone call with the three attorneys?

	Page 46		Page 48
1	meeting?	1	Q (BY MR. ZELLERS) You understood they
2	A Within that same maybe a month later,	2	represented the Plaintiffs in this litigation
3	but same time frame.	3	A Yes.
4	Q Was the in-person strike that.	4	Q is that right?
5	Where was the in-person meeting?	5	A Yes.
6	A It was in my office in San Francisco.	6	Q You told them that you would be willing to
7	Q Who were the three attorneys that you	7	do the review. You did not at that point agree to
8	spoke with initially over the phone and then met	8	serve as an expert witness for the Plaintiffs; is
9	with in person?	9	that fair?
10	A So Dr. Thompson was one; John Restaino was	10	A That's fair.
11	one; and a third lawyer whose name is alluding me.	11	Q Did you then go and do your review,
12	Q Was it a man or a woman?	12	literature review?
13	A A woman.	13	A Yes, I did.
14	Q Is it a lawyer that you have had any	14	Q You, at least at that point in time, had
15	further contact with or communications with?	15	never previously done any research or review
16	A Yes.	16	relating to talcum powder or relating to any
17	Q But you can't remember her name?	17	potential association between talcum powder,
18	A I can't. But if we give it a minute, I	18	perineal talcum powder use, and ovarian concern; is
19	think I will be able to.	19	that right?
20	Q Well, if you do remember it at some point	20	A That's correct.
21	today, let us know.	21	MS. O'DELL: Object to the form.
22	When you had the phone call with	22	Q (BY MR. ZELLERS) You went out and reviewed
23	Ms. Thompson and with Mr. Restaino and this third	23	the literature; is that right?
24	lawyer in the in-person meeting, what did they ask	24	A Yes.
25	you to do?	25	Q Did plaintiff's counsel, the two lawyers
	Page 47		Page 49
1	A They asked me if I would be willing to do	1	that you met well, strike that.
2	a comprehensive and unbiased review of the	2	The three lawyers you met with, did they
3	literature around talcum powder products and ovarian	3	provide you with some articles to get started with?
4	cancer.	4	A They provided access to a database, a
5	Q Did they ask you to do anything else?	5	Dropbox, where they had a large number of articles
6	A Well, they asked if I would be willing to	6	that they made available to me.
7	be an expert witness in this case.	7	Q You reviewed those articles. Did you then
8	Q Anything else?	8	have another meeting or communication with the
9	A Nothing else that I can recall.	9	plaintiffs' lawyers?
10	Q You said you would do a review of the	10	MS. O'DELL: Object to the form.
11	literature, correct?	11	A I had several meetings with the lawyers
12	A I yes	12	over the subsequent year.
12 13	A I yes Q You	12 13	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you
12 13 14	A I yes Q You A I did.	12 13 14	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or
12 13 14 15	<ul> <li>A I yes</li> <li>Q You</li> <li>A I did.</li> <li>Q you said that you would be willing to</li> </ul>	12 13 14 15	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?
12 13 14 15 16	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct?	12 13 14 15 16	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.
12 13 14 15 16 17	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct? MS. O'DELL: Object to the form.	12 13 14 15 16 17	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.  A I I was asked to draft a report of my
12 13 14 15 16 17	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct? MS. O'DELL: Object to the form. A I I hesitated on the last question	12 13 14 15 16 17 18	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.  A I I was asked to draft a report of my review of the the literature and the data that
12 13 14 15 16 17 18	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct? MS. O'DELL: Object to the form. A I I hesitated on the last question because I was very upfront and clear that I was	12 13 14 15 16 17 18 19	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.  A I I was asked to draft a report of my review of the the literature and the data that were available.
12 13 14 15 16 17 18 19 20	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct? MS. O'DELL: Object to the form. A I I hesitated on the last question because I was very upfront and clear that I was willing to do a review, but that I did not know this	12 13 14 15 16 17 18 19 20	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.  A I I was asked to draft a report of my review of the the literature and the data that were available.  Q (BY MR. ZELLERS) At this time were there
12 13 14 15 16 17 18 19 20 21	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct? MS. O'DELL: Object to the form. A I I hesitated on the last question because I was very upfront and clear that I was willing to do a review, but that I did not know this field in any great depth and that I would only be	12 13 14 15 16 17 18 19 20 21	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.  A I I was asked to draft a report of my review of the the literature and the data that were available.  Q (BY MR. ZELLERS) At this time were there any new lawyers that you were meeting with on the
12 13 14 15 16 17 18 19 20 21 22	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct? MS. O'DELL: Object to the form. A I I hesitated on the last question because I was very upfront and clear that I was willing to do a review, but that I did not know this field in any great depth and that I would only be interested in doing that if I was permitted to do	12 13 14 15 16 17 18 19 20 21	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.  A I I was asked to draft a report of my review of the the literature and the data that were available.  Q (BY MR. ZELLERS) At this time were there any new lawyers that you were meeting with on the plaintiffs' side or was it still the three original
12 13 14 15 16 17 18 19 20 21 22 23	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct? MS. O'DELL: Object to the form. A I I hesitated on the last question because I was very upfront and clear that I was willing to do a review, but that I did not know this field in any great depth and that I would only be interested in doing that if I was permitted to do the review the same as I do in my other scientific	12 13 14 15 16 17 18 19 20 21 22 23	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.  A I I was asked to draft a report of my review of the the literature and the data that were available.  Q (BY MR. ZELLERS) At this time were there any new lawyers that you were meeting with on the plaintiffs' side or was it still the three original lawyers?
12 13 14 15 16 17 18 19 20 21 22	A I yes Q You A I did. Q you said that you would be willing to serve as an expert for Plaintiffs, correct? MS. O'DELL: Object to the form. A I I hesitated on the last question because I was very upfront and clear that I was willing to do a review, but that I did not know this field in any great depth and that I would only be interested in doing that if I was permitted to do	12 13 14 15 16 17 18 19 20 21	over the subsequent year.  Q (BY MR. ZELLERS) Eventually were you asked, you know, to render an opinion on a topic or topics?  MS. O'DELL: Object to the form.  A I I was asked to draft a report of my review of the the literature and the data that were available.  Q (BY MR. ZELLERS) At this time were there any new lawyers that you were meeting with on the plaintiffs' side or was it still the three original

	Page 50		Page 52
1	that	1	better than what you have already done?
2	Q Do you remember his or her name?	2	A No.
3	A Her name. Breanne was her first name.	3	Q As part of serving as an expert for
4	Q Do you know Breanne's last name?	4	Plaintiffs, you did an either A do you call it
5	A Maybe Cope or something that's similar to	5	a systematic review or a meta-analysis? What do you
6	Cope.	6	call that?
7	Q You reviewed the articles. You were asked	7	A I call it a systematic review.
8	then by Plaintiffs to write up something relating to	8	Q What's the difference between a systematic
9	the articles; is that right?	9	review and a meta-analysis?
10	A Yes.	10	A I I don't think there's any difference.
11	MS. O'DELL: Object to the form.	11	They're they're both trying to describe an
12	Q (BY MR. ZELLERS) At some point did either	12	unbiased, quantitative review of the medical
13	you suggest or the plaintiff lawyers ask you to form	13	literature.
14	certain opinions relating to this matter?	14	Q Did your systematic review that you
15	MS. O'DELL: Object to the form.	15	did, you did that after you had done this review of
16	A I'm not I'm not sure what you mean,	16	the literature, fair?
17	"form opinions."	17	MS. O'DELL: Object to the form.
18	Q (BY MR. ZELLERS) You met with the lawyers;	18	A My systematic review grew out of my
19	is that right, after you had done your literature	19	reading the literature and realizing that there was
20	review?	20	a real gap, which I thought needed to be filled.
21	A Yes.	21	And I chose to do that.
22	Q You had not yet agreed to be an expert	22	Q (BY MR. ZELLERS) I will today, you know,
23	witness for the Plaintiffs; is that right?	23	ask you some more detailed questions about that.
24	A Yes.	24	Let me make sure I have covered by basics here.
25	Q After you had done your literature review,	25	Your report includes as attachments, a
	Page 51		Page 53
1	Page 51 did the plaintiffs' lawyer say: Well,	1	Page 53 list of references; is that right?
1 2		1 2	
	did the plaintiffs' lawyer say: Well,		list of references; is that right?
2	did the plaintiffs' lawyer say: Well, Dr. Smith-Bindman, do you have an opinion as to	2	list of references; is that right?  A Yes, it does.
2	did the plaintiffs' lawyer say: Well, Dr. Smith-Bindman, do you have an opinion as to whether or not there's an association between	2 3	list of references; is that right?  A Yes, it does.  Q What is meant to be included in the references that appear and are attached to your report, pages 42 through 47?
2 3 4	did the plaintiffs' lawyer say: Well, Dr. Smith-Bindman, do you have an opinion as to whether or not there's an association between perineal talcum powder use and ovarian cancer?	2 3 4	list of references; is that right?  A Yes, it does.  Q What is meant to be included in the references that appear and are attached to your
2 3 4 5	did the plaintiffs' lawyer say: Well, Dr. Smith-Bindman, do you have an opinion as to whether or not there's an association between perineal talcum powder use and ovarian cancer?  A I don't remember any such conversation.	2 3 4 5	list of references; is that right?  A Yes, it does.  Q What is meant to be included in the references that appear and are attached to your report, pages 42 through 47?
2 3 4 5 6	did the plaintiffs' lawyer say: Well, Dr. Smith-Bindman, do you have an opinion as to whether or not there's an association between perineal talcum powder use and ovarian cancer? A I don't remember any such conversation. I I think from the very beginning the lawyers	2 3 4 5 6	list of references; is that right?  A Yes, it does.  Q What is meant to be included in the references that appear and are attached to your report, pages 42 through 47?  A Those are references that I have cited
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	Page 54		Page 56
1	that you would update your curriculum vitae to, do	1	the report in that manner, but just to clarify.
2	any of those relate to this matter or to the	2	A No, I could not easily go through and pick
3	opinions you're giving here today?	3	out which ones were ones that I provided to them or
4	A They do not.	4	which ones they provided to me.
5	Q Deposition Exhibit 15 is also a document	5	Q (BY MR. ZELLERS) All right. Are you aware
6	that was provided along with your report. It	6	do you know who Dr. Judith Wolf is?
7	appears to be a reliance list; is that right?	7	A No, I do not. I know the name, but not
8	MS. O'DELL: Object to the form. Thank	8	the person.
9	you.	9	Q Are you aware that your reliance list or
10	(Exhibit 15 was marked for identification	10	additional Materials Considered List, what we have
11	and is attached to the transcript.)	11	marked as Exhibit 15, is identical to the Materials
12	A Yes, it is.	12	Considered List that was attached to Dr. Wolf's
13	Q (BY MR. ZELLERS) What is included on the	13	report?
14	reliance list which we have marked as a Exhibit 14?	14	A I I don't know who Dr. Wolf is, nor do
15	A This is a broad list of	15	I know her reliance list.
16	THE COURT REPORTER: 15.	16	Q All right. Exhibit 15 is a reliance list
17	Q (BY MR. ZELLERS) Oh, I'm sorry. Yes let	17	or Materials Considered List that was prepared by
18	me ask that question again.	18	counsel for Plaintiffs; is that right?
19	What documents are listed and included on	19	A It was the list provided to me.
20	the reliance list which we have marked as	20	Q You may have reviewed some of these
21	Exhibit 15?	21	documents or you have reviewed some of these
22	A That is a broader list of documents. It	22	documents, but potentially not all of these
23	includes documents that I may have read, but I	23	documents
24	didn't believe needed to be cited.	24	MS. O'DELL: Object to the form.
25	It also includes documents that counsel	25	Q (BY MR. ZELLERS) fair?
	Page 55		Page 57
1	Page 55 provided to me that that may or may not have been	1	Page 57 A Yes.
1 2	provided to me that that may or may not have been closely read.	1 2	
	provided to me that that may or may not have been closely read.  So it includes both articles I know very	1	A Yes. Q Looking at your report, Deposition Exhibit 2 and let me withdraw that.
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	Page 58		Page 60
1	Q I kind of got sidetracked in terms of	1	most of the day yesterday, did you have any other
2	asking you about the Plaintiff lawyers that you met	2	meetings or conversations with the lawyers for the
3	with.	3	Plaintiffs to prepare for your deposition?
4	We had gotten up to your meeting with	4	A Yes, I did. So today is Thursday.
5	Ms. Thompson, with Mr. Restaino, with a lawyer	5	Wednesday, we met for most of the day. And I met
6	perhaps with the first name of Breanne; is that	6	with Dr. Thompson for an hour or so on Wednesday as
7	correct?	7	well.
8	A Yep.	8	Q All right. Any other
9	Q Have you remembered the fourth lawyer yet?	9	MS. O'DELL: I think the days may be mixed
10	A I I have not. Can can I call a	10	up. You said "Wednesday" twice.
11	friend?	11	A I apologize. So Tuesday, we met at the
12	Q No. No, need to call a friend.	12	end of the day for an hour and then most of the day
13	What other Plaintiff lawyers have you met	13	yesterday, Wednesday, and then today. Thank you.
14	with relating to your work as a plaintiff expert for	14	Q (BY MR. ZELLERS) Any other meetings or
15	the MDL litigation?	15	communications with counsel for Plaintiffs to
16	A There are no others that I recall.	16	prepare for the deposition here today?
17	Q We have other lawyers here today. You met	17	A Any other in-person meetings or
18	them	18	Q Or phone calls in which there was, you
19	A I apologize.	19	know, discussion about preparing for the deposition.
20	Q at least in the last day or two?	20	A I believe over well, I had asked to
21	A Yes.	21	reschedule this deposition. So there were a couple
22	Q Well, don't apologize to me. You probably	22	of e-mails related to that.
23	hurt their feelings.	23	I also had asked for a couple of
24	Did you meet all of the lawyers who are	24	additional documents to help ensure that I was
25	here today at some point?	25	seeing all materials that I felt were relevant to
	Page 59		Page 61
			rage of
1	A Yes, I did.	1	the case.
1 2		1 2	
	Q Some of them you have met just in the last		the case.  Q Are those the materials that were on
2	Q Some of them you have met just in the last couple of days as you prepared for the deposition;	2	the case.  Q Are those the materials that were on Exhibit 3 that we talked about at the very
2	Q Some of them you have met just in the last	2 3 4	the case.  Q Are those the materials that were on Exhibit 3 that we talked about at the very beginning?
2 3 4	Q Some of them you have met just in the last couple of days as you prepared for the deposition; is that right?	2	the case.  Q Are those the materials that were on Exhibit 3 that we talked about at the very beginning?  A Yes, they are.
2 3 4 5	Q Some of them you have met just in the last couple of days as you prepared for the deposition; is that right?  A That's correct.  Q Other than the lawyers who are present in	2 3 4 5	the case.  Q Are those the materials that were on Exhibit 3 that we talked about at the very beginning?  A Yes, they are.  Q Anything else that you did with the
2 3 4 5 6	Q Some of them you have met just in the last couple of days as you prepared for the deposition; is that right?  A That's correct.  Q Other than the lawyers who are present in the room today for Plaintiffs, have you met with any	2 3 4 5 6 7	the case.  Q Are those the materials that were on Exhibit 3 that we talked about at the very beginning?  A Yes, they are.  Q Anything else that you did with the lawyers in terms of preparing for your deposition
2 3 4 5 6 7	Q Some of them you have met just in the last couple of days as you prepared for the deposition; is that right?  A That's correct.  Q Other than the lawyers who are present in the room today for Plaintiffs, have you met with any other lawyers or communicated with any other lawyers	2 3 4 5 6 7 8	the case.  Q Are those the materials that were on Exhibit 3 that we talked about at the very beginning?  A Yes, they are.  Q Anything else that you did with the lawyers in terms of preparing for your deposition here today?
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	Page 62		Page 64
1	A No.	1	Q Do the invoices go through the time that
2	Q Other than the talcum powder litigation	2	you prepared your opinions and report as of
3	that we're here deposing you in, have you worked on	3	November 15 of 2018?
4	other litigations for either defendants or	4	A Yes, they will.
5	plaintiffs?	5	Q All right. Is that where they end?
6	MS. O'DELL: Other than the ones she has	6	A They would also include some hours that I
7	testified to?	7	have worked reviewing the material since that time.
8	Q (BY MR. ZELLERS) Well, other than, yes,	8	Although, I don't believe I have submitted those
9	the cases.	9	reports those invoices, but I certainly can.
10	A No, I have not.	10	Q So my question is: How much time have you
11	Q You have served as an expert witness in	11	spent on this matter since your last invoice? Can
12	other matters in which you did not provide	12	you estimate that for us?
13	deposition testimony; is that right?	13	A I would guess in the ballpark of 10 hours,
14	MS. O'DELL: Object to the form.	14	not including the time I met with the lawyers
15	A There are a small number of additional	15	yesterday not this week. Excluding the time this
16	medical malpractice cases that I was also involved	16	week.
17	with which would have settled before I was asked to	17	Q How much time did you spend this week in
18	take a deposition.	18	addition to that 10 hours with the lawyers in
19	Q (BY MR. ZELLERS) My question is: Have you	19	preparing yourself to provide deposition testimony?
20	ever testified or consulted with either plaintiffs	20	A In the ballpark of another 10 hours.
21	or defense in in a product liability litigation	21	Q Have you been served or been asked to
22	like this?	22	serve as an expert witness or consultant in any
23	A I have not.	23	other talcum powder litigation or matters?
24	Q Have you ever provided testimony in a	24	A I have not.
25	matter relating to a consumer product?	25	Q What percent of your professional time do
	Page 63		Page 65
1	A I have not.	1	you spend working as a consultant?
2	Q Have you ever been retained as an expert	2	A A small amount. Probably less than
3	or provided testimony in a matter relating to	3	5 percent.
4	asbestos?	4	Q What percent of your income is from
5	A I have not.	5	consulting on litigation matters?
6	Q Mr. Restaino had you ever met	6	MS. O'DELL: For a particular year or time
7	Mr. Restaino before that initial phone call and	7	period or average, just
8	meeting back in mid-2017?	8	Q (BY MR. ZELLERS) Well, the last couple of
9	A I had not.	9	years.
10	Q When I look at your invoices, will they	10	A In the last couple of years, a a small
11	generally outline the times that you had meetings	11	amount. Probably 5 or 10 percent.
12	and communications with Plaintiff lawyers?	12	Q What is the largest percent of your income
13	A Yes, they will.	13	that has related to consulting on litigation
14	Q Will they also outline whatever work	14	matters?
	that and I don't mean work, but at least dates as	15	And what I'm asking you to do is to look
15	to when you began your systematic review or	16	back. And what was the high point in terms of
16			income that you received from consulting on
16 17	meta-analysis?	17	
16 17 18	meta-analysis?  A The work that I did will be itemized. I'm	18	medical/legal matters?
16 17 18 19	meta-analysis?  A The work that I did will be itemized. I'm not sure if I break down writing the report versus	18 19	medical/legal matters?  A Probably the 10 percent that I cited.
16 17 18 19 20	meta-analysis?  A The work that I did will be itemized. I'm not sure if I break down writing the report versus doing the systematic review into separate buckets,	18 19 20	medical/legal matters?  A Probably the 10 percent that I cited.  Q Have you ever attended a convention or a
16 17 18 19 20 21	meta-analysis?  A The work that I did will be itemized. I'm not sure if I break down writing the report versus doing the systematic review into separate buckets, but it might.	18 19 20 21	medical/legal matters?  A Probably the 10 percent that I cited.  Q Have you ever attended a convention or a meeting with plaintiff lawyers and other plaintiff
16 17 18 19 20 21	meta-analysis?  A The work that I did will be itemized. I'm not sure if I break down writing the report versus doing the systematic review into separate buckets, but it might.  Q The invoices will start with sometime in	18 19 20 21 22	medical/legal matters?  A Probably the 10 percent that I cited.  Q Have you ever attended a convention or a meeting with plaintiff lawyers and other plaintiff experts?
16 17 18 19 20 21 22 23	meta-analysis?  A The work that I did will be itemized. I'm not sure if I break down writing the report versus doing the systematic review into separate buckets, but it might.  Q The invoices will start with sometime in mid-2017, when you started meeting with the lawyers;	18 19 20 21 22 23	medical/legal matters?  A Probably the 10 percent that I cited.  Q Have you ever attended a convention or a meeting with plaintiff lawyers and other plaintiff experts?  A I have not.
16 17 18 19 20 21	meta-analysis?  A The work that I did will be itemized. I'm not sure if I break down writing the report versus doing the systematic review into separate buckets, but it might.  Q The invoices will start with sometime in	18 19 20 21 22	medical/legal matters?  A Probably the 10 percent that I cited.  Q Have you ever attended a convention or a meeting with plaintiff lawyers and other plaintiff experts?

	Page 66		Page 68
1	Q Yes, a meeting of lawyers	1	Q What others?
2	A Never.	2	A Mr. Cooke's deposition, I believe.
3	Q and plaintiff experts.	3	Q What others? Did you put in your report,
4	A Never.	4	the names of other experts that you reviewed their
5	Q All right. Have you	5	deposition testimony of?
6	A I didn't know there was such a thing.	6	A I I I'm checking if if I have.
7	Q Do you know any of the experts that have	7	I
8	also been retained by the Plaintiffs in this	8	Q Well, you have a recollection of reviewing
9	litigation?	9	
10	A I don't know them personally, but I I	10	A I I don't have a recollection of any
11	have seen their names. And their names are the	11	others that I have looked at.
12	same some of the names are names that are	12	Q Do you know who David Kessler is?
13	familiar to me.	13	A I do.
14	Q Have you communicated with any of the	14	Q How do you know Dr. Kessler?
15	other experts for Plaintiffs?	15	A I
16	A I have not.	16	MS. O'DELL: Object to the form.
17	Q Have you reviewed reports from any of the	17	A Dr. Kessler is a faculty member at
18	experts for Plaintiffs?	18	UCSF.
19	A I have reviewed a handful of them	19	Q (BY MR. ZELLERS) Do you know him
20	Q What	20	personally?
21	A yes.	21	A Not well, but enough to say hello.
22	Q reports of other plaintiff experts have	22	Q Been at meetings with him?
23	you reviewed?	23	A I have.
24	A I reviewed Dr. Cooke's report. I reviewed	24	Q You understand that he's an expert for the
25	Mr. Longo's report. I reviewed an ob	25	Plaintiffs?
	Page 67		Page 69
1	obstetrician gynecologist report.	1	A I I have been told that.
2	Q Do you remember who?	2	Q Have you had any discussions with
3	A Clarke perhaps or something like Clarke.	3	Dr. Kessler at all relating to this matter, the
4	MS. O'DELL: If you need to refer to your	4	talcum powder matter?
5	report or your materials, feel free to do that.	5	A I have not.
6	A Okay. I think Mr. Cralley's (phonetic)	6	Q Have you participated in any projects
7	report.	7	medical/legal projects with Dr. Kessler
8	Q (BY MR. ZELLERS) Do you know any of those	8	A I
9	experts personally?	9	Q in the past?
10	A I do not.	10	A I have not.
11	Q All right. You have never communicated	11	Q Have you heard of a documentary called
12	with any of those experts; is that right?	12	"The Bleeding Edge"?
13	A I have not.	13	A I have.
14	Q You have just reviewed their reports; is	14	Q Did you participate in the documentary
15	that right?	15	called "The Bleeding Edge"?
16	A That's correct.	16	A I did.
17	Q Have you reviewed any deposition testimony	17	Q You understand that Dr. Kessler also
18	or portions of depositions of plaintiff experts in	18	participated in that; is that right?
19	this matter?	19	A I yes.
20	A I have reviewed small pieces of several of	20	Q That is a documentary related to what?
21	them.	21	A A medical devices, primarily.
22	Q Okay. What experts have you reviewed a	22	Q Have you served as a consultant or expert
23	small pieces of their deposition?	23	in medical device matters?
24	A Dr. Moorman's testimony or deposition, I	24	A I have not.
	11 D1. Proofficing Confloring of deposition, 1	25	Q Pharmaceutical matters?
25	saw some of.	45	Q I harmaceuticai matters:

A I have not. Q How was it then that you were retained or ended up participating in "The Bleeding Edge"	1	A I had
	2	Q in this case
ended up participating in The Bleeding Edge	3	A not.
documentary?	4	Q is that right?
MS. O'DELL: Object to the form.	5	A That's correct.
A I I'm not sure if you have had a chance	6	Q Have you worked with other
to see the documentary or not, but my role in it	7	biostatisticians in the past?
is is pretty off topic.	8	A I have.
And so at an initial incarnation of that	9	Q Why did you decide you needed to work with
documentary, they had thought about focusing on an	10	a new biostatistician for this litigation?
issue where I do do research, radiation for medical	11	A The primary work that I needed was to do a
imaging.	12	few graphs and figures, and so I wanted someone who
It no longer fits into their new topic,	13	was both an expert in that and who I thought could
but somehow they kept a quote of me in that film.	14	respond relatively quickly.
Q Did Dr. Kessler, was he the one	15	I have on my team, several
responsible for putting that documentary together?	16	biostatisticians who are part of my research group,
A I no, I don't I don't believe he	17	but they don't have particularly relevant expertise
was.	18	in generating these graphs.
Q Were you paid for your work in	19	And it would have required them to acquire
participating in that documentary?	20	some skills, and so I wanted someone who focuses
A No I was not.	21	specifically on this who could do that.
Q All right. Jane Hall, she assisted you	22	Q Did you review any work from Dr. Hall
with your systematic review. Is is that the	23	before you hired her?
right way you would characterize it, a systematic	24	A I have been involved in systematic reviews
review?	25	that she contributed to that I was very impressed
Page 71		Page 73
		with. And so
		Q So what other A I reached out.
		Q sorry. I didn't mean to interrupt you.
		What other systematic reviews have you
		been involved with Dr. Hall?
		A Actually, two of them. One of them is on
· · · · · · · · · · · · · · · · · · ·		a treatment for kidney stones. Ralph Wang is the
		senior author.
<i>3</i> /		And the second was a systematic review
	1	around the diagnosis of and treatment for pulmonary
		embolism that also Dr. Wang was the leader on.
		Q Did you ever meet with Dr. Hall with
	14	respect to this work in person?
A I have.	15	A I never met with her related to anything.
	16	It was all by electronic communication.
· · · · · · · · · · · · · · · · · · ·	17	Q Did you ever talk with her over the phone?
	18	A Yes. We spoke a few times.
	19	Q Did you take notes of your conversations
And I knew he had a biostatistician who	20	with Dr. Hall?
	21	A Not that I recall.
wanted. And so I reached out to him, and he	22	Q You did have e-mails with Dr. Hall
introduced me to Dr. Hall.	23	A Yes.
Q You had never worked with Dr. Hall prior	24	Q is that right?
to performing your systematic review	25	A Yes.
	And so at an initial incarnation of that documentary, they had thought about focusing on an issue where I do do research, radiation for medical imaging.  It no longer fits into their new topic, but somehow they kept a quote of me in that film.  Q Did - Dr. Kessler, was he the one responsible for putting that documentary together?  A I - no, I don't I don't believe he was.  Q Were you paid for your work in participating in that documentary?  A No I was not.  Q All right. Jane Hall, she assisted you with your systematic review. Is is that the right way you would characterize it, a systematic review?  Page 71  A Yes, the systematic review you asked the difference between a meta-analysis. It sort of implies a certain scientific review rigor when you call it a systematic review, so that's how I like to think about it.  Q You think systematic review implies more scientific rigor than meta-analysis?  A I think it's a subtle distinction, but yes, I do.  Q Well, you communicated and hired Jane hall to assist you; is that right?  A Yes, I did.  Q Have you produced all of your communications and materials with Jane Hall?  A I have.  Q How did you come in contact with Dr. Hall?  A I work closely with an emergency medicine researcher, and I have assisted him in several systematic reviews.  And I knew he had a biostatistician who generated the kind of graphics and analysis that I wanted. And so I reached out to him, and he introduced me to Dr. Hall.  Q You had never worked with Dr. Hall prior	And so at an initial incarnation of that documentary, they had thought about focusing on an issue where I do do research, radiation for medical imaging.  It no longer fits into their new topic, but somehow they kept a quote of me in that film. Q Did – Dr. Kessler, was he the one responsible for putting that documentary together? A I – no, I don't – I don't believe he was. Q Were you paid for your work in participating in that documentary? A No I was not. Q All right. Jane Hall, she assisted you with your systematic review. Is – is that the right way you would characterize it, a systematic review?  Page 71  A Yes, the systematic review – you asked the difference between a meta-analysis. It sort of implies a certain scientific review – rigor when you call it a systematic review, so that's how I like to think about it. Q You think systematic review implies more scientific rigor than meta-analysis? A I think it's a subtle distinction, but yes, I do. Q Well, you communicated and hired Jane hall to assist you; is that right? A Yes, I did. Q Have you produced all of your communications and materials with Jane Hall? A I have. Q How did you come in contact with Dr. Hall? A I work closely with an emergency medicine researcher, and I have assisted him in several systematic reviews. And I knew he had a biostatistician who generated the kind of graphics and analysis that I wanted. And so I reached out to him, and he introduced me to Dr. Hall. Q You had never worked with Dr. Hall prior

	Dama 74		Daga 76
	Page 74		Page 76
1	Q Do you have receipts for the work that	1	time is 11:10 a.m.
2	Dr. Hall performed for you?	2	Q (BY MR. ZELLERS) Dr. Smith-Bindman, I'm
3	MS. O'DELL: Object to the form.	3	handing you Deposition Exhibit 16, which is an
4	A Like an invoice receipt?	4	e-mail chain. The very first e-mail, meaning the
5	Q (BY MR. ZELLERS) Yes, an invoice receipt.	5	last e-mail at the top of page 1, is Jane Hall
6	A No, I do not.	6	from Jane Hall, September 24, 2018, at 8:04 a.m. to
7	Q You ended up paying her rush fees so that	7	you.
8	she would do the work and the analysis more quickly;	8	(Exhibit 16 was marked for identification
9	is that right?	9	and is attached to the transcript.)
10	MS. O'DELL: Object to the form.	10	Q (BY MR. ZELLERS) Will you take a look at
11	A I I remember telling her I didn't mind	11	that and tell us if that is a printout of some of
12	her rush fee. But but all of the invoicing was	12	your e-mail exchanges with Dr. Hall?
13	done directly with counsel.	13	A Yes.
14	Q (BY MR. ZELLERS) Well, Dr. Hall came to	14	Q If we go to the very first e-mail in the
15	you and said: You know, it's going to take X amount	15	chain, it appears that you contacted Dr. Hall on
16	of time to do a thorough analysis?	16	Wednesday, September 19, 2018, in the afternoon,
17	A Yes.	17	3:21 p.m., and told her that you were interested
18	Q She did offer to rush the analysis	18	primarily in generating a forest plot with a summary
19	A Yes.	19	estimate and test for heterogeneity; is that right?  A Yes.
20	Q when you told her you needed it?	20	
21	A Yes.		Q That was your initial contact with
22	Q And your recollection is she, you know,	22	Dr. Hall; is that right?  A Yes.
23	did rush the analysis and and got it done within	23	
24 25	a couple of days?	25	Q You contacted your referring person,
25	MS. O'DELL: Object to the form.	25	Ralph, on the e-mail; is that right?
	Page 75		Page 77
1	A I believe the analysis actually took a	1	A Yes.
2	couple of weeks.	2	Q All right. You told the next day you
3	But I was very open to paying her rush	3	had some exchanges of e-mails with Dr. Hall. You
4	fee. I thought her fee was extraordinarily	4	told Dr. Hall that because you were doing a review
5	reasonable, and so it just made it easier for me to	5	for a legal case, you did not need the detail that
6	get it done quickly rather than to delay.	1 2	
		6	you would need for a paper; is that right?
7	Q (BY MR. ZELLERS) You defer to the e-mails	1	you would need for a paper; is that right?  MS. O'DELL: Object to the form.
8	Q (BY MR. ZELLERS) You defer to the e-mails and the documents as to the timing of when you	6 7 8	you would need for a paper; is that right?  MS. O'DELL: Object to the form.  A Can you tell me where you're reading?
8 9	Q (BY MR. ZELLERS) You defer to the e-mails and the documents as to the timing of when you requested that she rush the analysis and when she	6 7 8 9	you would need for a paper; is that right?  MS. O'DELL: Object to the form.  A Can you tell me where you're reading?  Q (BY MR. ZELLERS) Sure. I'm reading on
8 9 10	Q (BY MR. ZELLERS) You defer to the e-mails and the documents as to the timing of when you requested that she rush the analysis and when she provided it to you; is that right?	6 7 8 9 10	you would need for a paper; is that right?  MS. O'DELL: Object to the form.  A Can you tell me where you're reading?  Q (BY MR. ZELLERS) Sure. I'm reading on page 2 of Exhibit 16, the very last e-mail. This is
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8 9 10 11 12	Q (BY MR. ZELLERS) You defer to the e-mails and the documents as to the timing of when you requested that she rush the analysis and when she provided it to you; is that right?  MS. O'DELL: Object to the form.  A I believe my documents would be correct	6 7 8 9 10 11 12	you would need for a paper; is that right?  MS. O'DELL: Object to the form.  A Can you tell me where you're reading?  Q (BY MR. ZELLERS) Sure. I'm reading on page 2 of Exhibit 16, the very last e-mail. This is from you on September 20 of 2018.  You thanked Dr. Hall for her willingness
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q (BY MR. ZELLERS) You defer to the e-mails and the documents as to the timing of when you requested that she rush the analysis and when she provided it to you; is that right?  MS. O'DELL: Object to the form.  A I believe my documents would be correct about when I asked for stuff and when it was done, yes.  MS. O'DELL: Excuse me, Mike. We have been going about an hour and 20 minutes. Is this a good time to take a quick break?  MR. ZELLERS: Absolutely.  THE VIDEOGRAPHER: We are off the record.  The time is 10:40 a.m. This is the end of Disc 1.  (A break was taken from 10:40 a.m. to 11:10 a.m.)	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you would need for a paper; is that right?  MS. O'DELL: Object to the form.  A Can you tell me where you're reading?  Q (BY MR. ZELLERS) Sure. I'm reading on page 2 of Exhibit 16, the very last e-mail. This is from you on September 20 of 2018.  You thanked Dr. Hall for her willingness to help.  "As Ralph mentioned, I am doing a review for a legal case and don't need quite the detail I would usually need for a paper."  Is that what you told Dr. Hall?  A Yes, it is.  Q As of well, you communicated with Dr. Hall on Friday, September 21st, in the morning. This is the very last e-mail on page 1 of Exhibit 16.

			Page 80
1	MS. O'DELL: Object to the form. I think	1	A Yes.
2	you misstated date on the e-mail but	2	Q Have you communicated about this
3	Q (BY MR. ZELLERS) Well, I'm sorry. Let me	3	litigation with anyone other than the plaintiffs'
4	ask that question again. On Friday morning,	4	counsel that you have told us about with Dr. Hall?
5	September 21, 2018, you told Dr. Hall that you	5	Anyone else?
6	needed her information as soon as possible because	6	MS. O'DELL: Object to the form.
7	you had to finish your report ASAP; is that right?	7	A I you asked me if I have mentioned this
8	A Yes.	8	litigation to anyone else?
9	Q Dr. Hall got back to you that day and	9	Q (BY MR. ZELLERS) Well, let's start there.
10	said, you know, I'll do my best. But if you want, I	10	Have you mentioned this litigation to anyone else?
11	can rush the work, if you're willing to pay time and	11	A I have.
12	a half.	12	Q Who have you mentioned this litigation to?
13	You then got back to her on Monday	13	A I have certainly mentioned it to my
14	morning, September 24, and said: Yes, I'll pay the	14	husband.
15	rush fee, and I would like your work as soon as	15	Q Other than your husband?
16	possible.	16	A And then I have mentioned it to several
17	Is that right?	17	close friends.
18	MS. O'DELL: Object to the form. Object	18	Q Your husband is a physician; is that
19	to the form.	19	right?
20	A I I think you're paraphrasing what it	20	A He is.
21	says. The the idea was she said that if I paid	21	Q Did he provide any professional input to
22	the rush, she could have some money to defray	22	you related to your review of this matter?
23	childcare cost during	23	A No, he did not.
24	Q (BY MR. ZELLERS) Right. And	24	Q The close friends that you mentioned this
25	A that time, and I agreed to do that.	25	to, did they provide any input or assistance or
	Page 79		Page 81
1	Q Exactly. And she said back to you: Okay.	1	direction to you relating to this matter?
2	By the end of so this is on a Monday. She said	2	A No.
3	you'll have the work product from her Wednesday at	3	Q I asked you before if you read any of the
4	the earliest, probably Thursday.	4	depositions of the plaintiff experts. Have you
5	"I should have at least two sets of plots	5	discussed generally with plaintiffs' counsel, the
6	today, and I'll send them to you as they are	6	deposition testimony that's been given by other
7	output."	7	plaintiff experts in this litigation?
8	Is that right?	8	MS. O'DELL: I would instruct you not to
9	A Yes.	9	answer that question.
10	Q You have produced all of your e-mails and	10	MR. ZELLERS: I disagree, but we'll
11	communications with Dr. Hall in this matter; is that	11	reserve that issue.
12	right?	12	Q (BY MR. ZELLERS) Was there anything that
13	A I have. You're not showing me all of	13	you asked plaintiffs' counsel to provide to you in
14	those communications; is that right?	14	connection with your review or for preparation of
15	Q I haven't yet.	15	your report that you were not provided with?
16	A Okay.	16	A So most of the documents that I included
17	Q I'm going to show you some more.	17	in my report, I found by doing an independent search
18	A Yes.	18	online.
19	Q But my question to you is: Included in	19	There were several items that I didn't
	the production, at least you have included all of	20	find that I wanted to review as well. And so some
20	• .•	21	of the items that I asked counsel for were items
20 21	your communications		a a line and in the second
20 21 22	A Yes.	22	that I couldn't find through scientific research
20 21 22 23	A Yes. Q with Dr. Hall	22 23	that I asked them to provide.
20 21 22	A Yes.	22	

	Page 82		Page 84
1	that right?	1	MR. ZELLERS: Sure. Exhibit 3 is the list
2	A That's correct.	2	you gave me today of of the documents that
3	Q My question was a little bit different.	3	Dr. Smith-Bindman reviewed in addition to whatever
4	Is there anything that you asked for from	4	else is marked.
5	plaintiffs' counsel that they were not able or did	5	MS. O'DELL: I see. I see.
6	not provide to you?	6	MR. ZELLERS: So there's a it's a list
7	MS. O'DELL: Object to the form.	7	of Bates-stamped documents.
8	A I I can't think of anything that fits	8	MS. O'DELL: Yes.
9	into that question.	9	MR. ZELLERS: There's 10 or 12 Imerys
10	Q (BY MR. ZELLERS) Take a look at your	10	documents. There's one J&J Bates-stamped document
11	reliance list, which we have marked as Deposition	11	
12	Exhibit 15.	12	MS. O'DELL: Right.
13	Do you have that in front of you?	13	MR. ZELLERS: and then there's the, I
14	A I have my copy of the reliance list. I	14	think, expert report or
15	don't have your Exhibit 15 in front of me.	15	MS. O'DELL: Right.
16	Q If you have your copy does it start	16	MR. ZELLERS: deposition of Dr. Cooke
17	with page 1?	17	listed?
18	A Yes, it does.	18	MS. O'DELL: Right. Okay. I just object
19	Q At the very top	19	to the form of the question. And and
20	A Yes.	20	A Could I
21	Q the first item is "A Survey of The	21	MS. O'DELL: then
22	Long-Term Effects"?	22	A see Exhibit 3?
23	A Yes.	23	MS. O'DELL: yes. And then I would
24	Q If you turn to pages 11 and 12, there's a	24	Counsel, permit me there was a question related
25	series of documents that begin with "IMERYS"	25	to Exhibit 3. I thought you were referring to the
	· · · · · · · · · · · · · · · · · · ·		
	Page 83		Page 85
1	followed by numbers.	1	materials list, and so I'm going to assert my
2	Do you see that?	2	objection a little bit late.
3	A I do.	3	MR. ZELLERS: Okay. I just want to move
4	Q Do you know whether or not you reviewed	4	forward.
5	some or all of those Imerys-produced documents as	5	MS. O'DELL: I know that you do.
6	part of your review in this matter?	6	MR. ZELLERS: Yes.
7	A If those reflect Imerys testing documents	7	MS. O'DELL: I just want to be clear.
8	then yes, I did review at least some of them. I	8	Because Exhibit 3 that we provided were additional
9	can't be sure all of them.	9	materials that Dr. Smith-Bindman asked for and
10	Q Do you know whether or not these documents	10	reviewed in addition to the Materials Considered. I
11	relate to Imerys testing?	11	don't want the record to be unclear. So
12	A I have reviewed at least a half dozen	12	MR. ZELLERS: Well
1 0			MO OIDELL III
13	Imerys testing documents.	13	MS. O'DELL: I have noted my objection.
14	Imerys testing documents.  Q In	13 14	MR. ZELLERS: and the record is clear
14 15	Imerys testing documents.  Q In A I believe that's what these are, but I	13 14 15	MR. ZELLERS: and the record is clear that Dr. Smith-Bindman did not review all of the
14 15 16	Imerys testing documents.  Q In A I believe that's what these are, but I I'm not sure.	13 14 15 16	MR. ZELLERS: and the record is clear that Dr. Smith-Bindman did not review all of the materials listed in the Materials Considered List,
14 15 16 17	Imerys testing documents.  Q In A I believe that's what these are, but I I'm not sure. Q There are a number of Imerys documents	13 14 15 16 17	MR. ZELLERS: and the record is clear that Dr. Smith-Bindman did not review all of the materials listed in the Materials Considered List, Exhibit 15. But that testimony will stand as it is.
14 15 16 17 18	Imerys testing documents.  Q In A I believe that's what these are, but I I'm not sure. Q There are a number of Imerys documents that are listed on Exhibit 3, which you identified	13 14 15 16 17 18	MR. ZELLERS: and the record is clear that Dr. Smith-Bindman did not review all of the materials listed in the Materials Considered List, Exhibit 15. But that testimony will stand as it is. My question just is: In addition to the
14 15 16 17 18 19	Imerys testing documents.  Q In A I believe that's what these are, but I I'm not sure. Q There are a number of Imerys documents that are listed on Exhibit 3, which you identified as testing documents; is that right?	13 14 15 16 17 18 19	MR. ZELLERS: and the record is clear that Dr. Smith-Bindman did not review all of the materials listed in the Materials Considered List, Exhibit 15. But that testimony will stand as it is.  My question just is: In addition to the documents that I was told about this morning that
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14 15 16 17 18 19 20 21 22	Imerys testing documents.  Q In A I believe that's what these are, but I I'm not sure. Q There are a number of Imerys documents that are listed on Exhibit 3, which you identified as testing documents; is that right? A Yes. Q Do you know if you reviewed any Imerys documents other than the documents that are listed	13 14 15 16 17 18 19 20 21 22	MR. ZELLERS: and the record is clear that Dr. Smith-Bindman did not review all of the materials listed in the Materials Considered List, Exhibit 15. But that testimony will stand as it is.  My question just is: In addition to the documents that I was told about this morning that you believe are testing documents, do you know whether you reviewed any other Imerys-produced documents, and specifically the ones that are
14 15 16 17 18 19 20 21 22 23	Imerys testing documents.  Q In A I believe that's what these are, but I I'm not sure. Q There are a number of Imerys documents that are listed on Exhibit 3, which you identified as testing documents; is that right? A Yes. Q Do you know if you reviewed any Imerys documents other than the documents that are listed out on Exhibit 3?	13 14 15 16 17 18 19 20 21 22 23	MR. ZELLERS: and the record is clear that Dr. Smith-Bindman did not review all of the materials listed in the Materials Considered List, Exhibit 15. But that testimony will stand as it is.  My question just is: In addition to the documents that I was told about this morning that you believe are testing documents, do you know whether you reviewed any other Imerys-produced documents, and specifically the ones that are itemized on pages 11 and 12 of your Materials
14 15 16 17 18 19 20 21 22	Imerys testing documents.  Q In A I believe that's what these are, but I I'm not sure. Q There are a number of Imerys documents that are listed on Exhibit 3, which you identified as testing documents; is that right? A Yes. Q Do you know if you reviewed any Imerys documents other than the documents that are listed	13 14 15 16 17 18 19 20 21 22	MR. ZELLERS: and the record is clear that Dr. Smith-Bindman did not review all of the materials listed in the Materials Considered List, Exhibit 15. But that testimony will stand as it is.  My question just is: In addition to the documents that I was told about this morning that you believe are testing documents, do you know whether you reviewed any other Imerys-produced documents, and specifically the ones that are

	Page 86		Page 88
1	know if I reviewed them. The names are awfully	1	litigation so when you do your research work or
2	nonspecific.	2	when you do your publishing work do you rely on
3	Q With respect to the Imerys documents or	3	documents that are picked by someone else that may
4	Imerys-produced documents that are identified in	4	not represent the full body of evidence?
5	Exhibit 15, which is your Materials Considered List,	5	MS. O'DELL: Object to the form.
6	do you know how those were compiled?	6	A In my work, I review whatever data are
7	MS. O'DELL: Object to the form.	7	available. And sometimes those data are identified
8	A You're asking me where this list came	8	by me and sometimes they have been given to me by
9	from?	9	other sources to review.
10	Q (BY MR. ZELLERS) I think you have told us	10	Q (BY MR. ZELLERS) Is that a a yes or a
11	the list came from plaintiffs' counsel; is that	11	no? And let me withdraw that.
12	right?	12	The documents that we have looked at in
13	A Yes.	13	your reliance list Materials Considered List that
14	Q My question then, I guess, is more	14	begin with Imerys and begin with J&J, your
15	precise. Do you know how plaintiffs' counsel	15	understanding, those are documents that have been
16	compiled this list of Imerys-produced documents or	16	produced by the Defendants in this litigation; is
17	how they selected those documents?	17	that right?
18	A I know I had a lot of back and forth in	18	A Yes.
19	generating this list with actually Breanne at the	19	Q Do you know what percentage of the overall
20	time. I sent her a lot of documents that I had	20	documents that have been produced by Johnson &
21	looked at that I hadn't cited that she added to the	21	Johnson companies and by Imerys, these documents
22	list.	22	that are listed in Exhibit 15, represent?
23	These were ones that she added to the	23	MS. O'DELL: Object to the form.
24	list, and I don't remember what they were.	24	A Are you asking me if the handful of
25	Q I'm going to ask my question again. Do	25	documents from Johnson & Johnson that are in this
	Page 87		Page 89
1		1	
1 2	you know how these documents, the documents that	1 2	Page 89 list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or
	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered		list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or
2	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know	2	list reflect all of the documents ever created at
2	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered	2 3	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea?
2 3 4	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.	2 3 4	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea.
2 3 4 5	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.  Q All right. The same question. If you	2 3 4 5	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have
2 3 4 5 6	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.	2 3 4 5 6	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have been listed out by plaintiffs' counsel for you; is that right? A Yes.
2 3 4 5 6 7	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.  Q All right. The same question. If you look on page 13 of your Materials Considered List,	2 3 4 5 6 7	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have been listed out by plaintiffs' counsel for you; is that right?
2 3 4 5 6 7 8	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.  Q All right. The same question. If you look on page 13 of your Materials Considered List, there's a series of documents that have J&J and then	2 3 4 5 6 7 8	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have been listed out by plaintiffs' counsel for you; is that right? A Yes.
2 3 4 5 6 7 8	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.  Q All right. The same question. If you look on page 13 of your Materials Considered List, there's a series of documents that have J&J and then a number; is that right?	2 3 4 5 6 7 8 9 10	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have been listed out by plaintiffs' counsel for you; is that right? A Yes. MS. O'DELL: Object to the form. A Yes. Q (BY MR. ZELLERS) All right. In your
2 3 4 5 6 7 8 9	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.  Q All right. The same question. If you look on page 13 of your Materials Considered List, there's a series of documents that have J&J and then a number; is that right?  A Yes.	2 3 4 5 6 7 8 9	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have been listed out by plaintiffs' counsel for you; is that right? A Yes. MS. O'DELL: Object to the form. A Yes. Q (BY MR. ZELLERS) All right. In your report you cite two exhibits from the depositions of
2 3 4 5 6 7 8 9 10	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.  Q All right. The same question. If you look on page 13 of your Materials Considered List, there's a series of documents that have J&J and then a number; is that right?  A Yes.  Q You, as we sit here, do not know what	2 3 4 5 6 7 8 9 10 11 12	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have been listed out by plaintiffs' counsel for you; is that right? A Yes. MS. O'DELL: Object to the form. A Yes. Q (BY MR. ZELLERS) All right. In your report you cite two exhibits from the depositions of several witnesses. There's an exhibit from a
2 3 4 5 6 7 8 9 10 11	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.  Q All right. The same question. If you look on page 13 of your Materials Considered List, there's a series of documents that have J&J and then a number; is that right?  A Yes.  Q You, as we sit here, do not know what those documents relate to; is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have been listed out by plaintiffs' counsel for you; is that right? A Yes. MS. O'DELL: Object to the form. A Yes. Q (BY MR. ZELLERS) All right. In your report you cite two exhibits from the depositions of several witnesses. There's an exhibit from a deposition of John Hopkins.
2 3 4 5 6 7 8 9 10 11 12	you know how these documents, the documents that are on pages 11 and 12 of your Materials Considered List that begin with the "Imerys" name, do you know how they were compiled?  A No.  Q All right. The same question. If you look on page 13 of your Materials Considered List, there's a series of documents that have J&J and then a number; is that right?  A Yes.  Q You, as we sit here, do not know what those documents relate to; is that right?  A That's correct.	2 3 4 5 6 7 8 9 10 11 12 13 14	list reflect all of the documents ever created at Johnson & Johnson or all relevant documents or Q (BY MR. ZELLERS) Do you have any idea? A No, no idea. Q This is a handful of documents that have been listed out by plaintiffs' counsel for you; is that right? A Yes. MS. O'DELL: Object to the form. A Yes. Q (BY MR. ZELLERS) All right. In your report you cite two exhibits from the depositions of several witnesses. There's an exhibit from a deposition of John Hopkins. Do you know who John Hopkins is?
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	Page 90		Page 92
1	Q Have	1	Q All right. You were provided just as
2	A see.	2	you were for the exhibit from the deposition of John
3	Q you read any portion of the deposition	3	Hopkins, you were provided with the exhibit that you
4	of John Hopkins?	4	are reviewing from Julie Pier's deposition; is that
5	A I have not.	5	right?
6	Q Have you reviewed any other exhibits from	6	MS. O'DELL: Object to the form.
7	the deposition of John Hopkins?	7	A No, I don't well, I I don't believe
8	A I have not.	8	that's why I know who she is.
9	Q Do you know who Julie Pier is?	9	I I believe The New York Times story
10	A I believe I do.	10	and the Reuters story discussed her deposition. So
11	Q Who is Julie Pier?	11	I don't remember reading her deposition. But I
12	A I I'm just checking. I I I got a	12	if I'm not confusing her with someone else, I think
13	few names wrong earlier, so I want to just check	13	that's where I learned about her testing.
14	if	14	Q (BY MR. ZELLERS) Okay. You're a couple of
15	Q Well, you're going back now and you are	15	questions ahead of me here. No. 1, the exhibit
16	looking at your report?	16	that's in your blue folder from the deposition of
17	A Yes.	17	Julie Pier, that was provided to you for review by
18	Q And you have annotated your report, I	18	counsel for Plaintiffs; is that right?
19	guess, that you are using here today; is that right?	19	A Thank you for that reminder. That's the
20	A Yes.	20	Imerys document. Yes. Yes.
21	Q Why don't we just so we have a complete	21	Q I'm going to go back to my question.
22	record, we'll mark your annotated report as	22	A Yes.
23	Exhibit 17.	23	Q The exhibit from Julie Pier's deposition,
24	A Yes.	24	that was provided to you for review by plaintiffs'
25	(Exhibit 17 was marked for identification	25	counsel; is that right?
	Page 91		Page 93
1	Page 91 and is attached to the transcript.)	1	Page 93 A Yes.
1 2		1 2	
	and is attached to the transcript.)	1	A Yes.
2	and is attached to the transcript.)  A And and I would like to clarify based on some of my notes. But so I think Dr. Hopkins oversaw testing for for talc products at J&J.	2	A Yes.  MS. O'DELL: Object to the form.
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Page 94		Page 96
A I was provided these documents from a	1	Q And if we looked at the data for when and
prior case. I don't know who prepared them or where	2	the age that women were when they first used genital
they came from. I they were provided to me by	3	powder, at least from this study by Dr. Cramer, it
counsel.	4	appears that the vast majority of women began using
Q (BY MR. ZELLERS) Let me ask you just a	5	talcum powder in their genital area before age 30;
couple of background questions from your review of	6	is that right?
the literature in this case. You have reviewed a	7	A In this publication.
lot of literature relating to talcum powder and	8	Q Do you recall any other publications
talcum powder use by women in the perineal region;	9	that that you reviewed that provided contrary
is that right?	10	information?
A Yes, I have.	11	A The question you're asking me is not one
Q I think you say in your report that you	12	that I spent a lot of time thinking about and so
reviewed upwards of 40 studies in papers relating to	13	can't recall sort of across the hundreds of
that. Does that sound about right?	14	papers I read and 50 that talked about the
MS. O'DELL: Object to the form.	15	association what time the age of first use was.
A Upward of 40 studies that provided primary	16	I I see Dr. Cramer's experience is that
new data. There were probably hundreds of papers I	17	women do report beginning use earlier, but I
reviewed on the topic.	18	there's no way for me to know if that's a reflection
Q (BY MR. ZELLERS) From that review, do you	19	of his sampling, the place he studied the women, and
	20	so forth.
	21	Q At least on that point, you would refer to
A I don't know the when I I think a	22	Dr. Cramer, fair?
lot of women start use when they're young. I would	23	MS. O'DELL: Object to the form.
	24	A I I would defer to a comprehensive
they began using talcum powder products.	25	review of the literature to come up with that view.
Page 95		
	1	My my guess would be that Dr. Cramer
		believes his numbers in his population, but I but
		I don't know that that's the truth in other
		populations.
·		Q (BY MR. ZELLERS) Well, let me ask you
- · · · · · · · · · · · · · · · · · · ·		another question. On average from the studies that
		you reviewed, do women who use talcum powder in
		their perineal region continue that use for over
	9	20 years?
	10	MS. O'DELL: Object to the form.
		A My recollection of the literature is that
		most publications could not assess or did not ask in
		detailed enough form of how long women used it.
		I I again, it's possibly a question
9		that could be answered from the literature, but I
Q I do want to ask you questions a later	16	don't recall knowing that answer from my review of
		the literature.
about that. But for purposes of this question when	17	
about that. But for purposes of this question when do most women who use talcum power powder in		
do most women who use talcum power powder in	18 19	Q (BY MR. ZELLERS) Did you review the Wu
do most women who use talcum power powder in their perineal region begin, go to page 336 of	18	Q (BY MR. ZELLERS) Did you review the Wu 2015 paper?
do most women who use talcum power powder in their perineal region begin, go to page 336 of Exhibit 18 and specifically Table 1.	18 19	Q (BY MR. ZELLERS) Did you review the Wu 2015 paper? A I did.
do most women who use talcum power powder in their perineal region begin, go to page 336 of Exhibit 18 and specifically Table 1.  A Yes.	18 19 20	Q (BY MR. ZELLERS) Did you review the Wu 2015 paper?  A I did.  Q Do you have that in one of your notebooks?
do most women who use talcum power powder in their perineal region begin, go to page 336 of Exhibit 18 and specifically Table 1.  A Yes.  Q One of the categories that is reported	18 19 20 21	<ul> <li>Q (BY MR. ZELLERS) Did you review the Wu</li> <li>2015 paper?</li> <li>A I did.</li> <li>Q Do you have that in one of your notebooks?</li> <li>A I will have it in here.</li> </ul>
do most women who use talcum power powder in their perineal region begin, go to page 336 of Exhibit 18 and specifically Table 1.  A Yes.	18 19 20 21 22	Q (BY MR. ZELLERS) Did you review the Wu 2015 paper?  A I did. Q Do you have that in one of your notebooks? A I will have it in here.
_	A I was provided these documents from a prior case. I don't know who prepared them or where they came from. I they were provided to me by counsel.  Q (BY MR. ZELLERS) Let me ask you just a couple of background questions from your review of the literature in this case. You have reviewed a lot of literature relating to talcum powder and talcum powder use by women in the perineal region; is that right?  A Yes, I have.  Q I think you say in your report that you reviewed upwards of 40 studies in papers relating to that. Does that sound about right?  MS. O'DELL: Object to the form.  A Upward of 40 studies that provided primary new data. There were probably hundreds of papers I reviewed on the topic.  Q (BY MR. ZELLERS) From that review, do you agree that most women who use talcum powder in their perineal region begin that use before age 30?  A I don't know the when I I think a lot of women start use when they're young. I would have to check my report if I have cites as to when	A I was provided these documents from a prior case. I don't know who prepared them or where they came from. I they were provided to me by counsel.  Q (BY MR. ZELLERS) Let me ask you just a couple of background questions from your review of the literature in this case. You have reviewed a lot of literature relating to talcum powder and talcum powder use by women in the perineal region; is that right?  A Yes, I have. Q I think you say in your report that you reviewed upwards of 40 studies in papers relating to that. Does that sound about right?  MS. O'DELL: Object to the form. A Upward of 40 studies that provided primary new data. There were probably hundreds of papers I reviewed on the topic. Q (BY MR. ZELLERS) From that review, do you agree that most women who use talcum powder in their perineal region begin that use before age 30? A I don't know the when I I think a lot of women start use when they're young. I would have to check my report if I have cites as to when they began using talcum powder products.  Page 95 Q (BY MR. ZELLERS) Well, take a look, if you will, at Deposition Exhibit 18, which is a report by Cramer.  (Exhibit 18 was marked for identification and is attached to the transcript.) Q (BY MR. ZELLERS) He's the first named author. This is the 2016 study MS. O'DELL: Thank you. Q (BY MR. ZELLERS) - report. Are you MS. O'DELL: Are we at 18? MR. ZELLERS: 18. Q (BY MR. ZELLERS) You're familiar with the paper we have marked as Deposition Exhibit 18; is that right?

	Page 98		Page 100
1	A Yes, I do.	1	A Yes.
2	Q Turn to page 1097, Table 2.	2	Q (BY MR. ZELLERS) Are you able to tell us
3	A Could you unfortunately, the page	3	how far before you prepared your report, November 15
4	the version I have is a free download, and it	4	of 2018, that you formed those conclusions?
5	doesn't have the same page	5	MS. O'DELL: Object to the form.
6	Q How	6	A I spent considerable hours during 2018
7	A numbers.	7	reviewing the literature. And over the course of
8	Q about can you find Table 2? It's	8	that year, my opinions started to solidify when I
9	the a table that's captioned "Prevalence of Risk	9	saw the evidence that strongly supported that
10	Factors in Non-Hispanic white, Hispanic, and	10	ovarian cancer is caused by talcum powder products.
11	African-American Control."	11	I
12	A Yes, I have that paper.	12	Q (BY MR. ZELLERS) And
13	Q All right. So if you look at the	13	A I I believe that my final systematic
14	controls, at the very bottom of that section, it	14	review was for me important to to confirm that
15	gives a mean number of years of talc use among	15	association. And that wasn't done that wasn't
16	users; is that right?	16	completed until my report was basically close to
17	A Yes.	17	when my report had to be drafted.
18	Q And whether we're looking at non-Hispanic	18	Q The systematic review that you did was in
19	whites, Hispanics, or African-Americans, at least	19	and around September and October of 2018; is that
20	the number of years of talc use that's reported is	20	right?
21	greater than 20 years for each of those groups; is	21	A I believe the final statistical analysis
22	that right?	22	was then, but my my systematic review went on for
23	A In	23	many months.
24	MS. O'DELL: Object to the form.	24	Q Well, your systematic review, at least
25	A in Dr. Wu's paper, there is reported	25	insofar as Dr. Hall assisted you, was in September
	Page 99		Page 101
			rage 101
1	that the mean number of years is greater than 20.	1	of 2018; is that right?
1 2	that the mean number of years is greater than 20.  Q (BY MR. ZELLERS) If we look down at the	1 2	
			of 2018; is that right?
2	Q (BY MR. ZELLERS) If we look down at the group below, the number of cases, the mean number of years of talc use among users is greater than	2	of 2018; is that right?  MS. O'DELL: Object to the form.  A The systematic review that I described in my report has a lot of components. So one component
2	Q (BY MR. ZELLERS) If we look down at the group below, the number of cases, the mean number of	2 3	of 2018; is that right?  MS. O'DELL: Object to the form.  A The systematic review that I described in my report has a lot of components. So one component is to do a complete comprehensive review of of
2 3 4	Q (BY MR. ZELLERS) If we look down at the group below, the number of cases, the mean number of years of talc use among users is greater than	2 3 4	of 2018; is that right?  MS. O'DELL: Object to the form.  A The systematic review that I described in my report has a lot of components. So one component is to do a complete comprehensive review of of what's been published.
2 3 4 5	Q (BY MR. ZELLERS) If we look down at the group below, the number of cases, the mean number of years of talc use among users is greater than 20 years, also for each of those groups; is that right?  MS. O'DELL: Object to the form.	2 3 4 5	of 2018; is that right?  MS. O'DELL: Object to the form.  A The systematic review that I described in my report has a lot of components. So one component is to do a complete comprehensive review of of what's been published.  And that involved doing the search,
2 3 4 5 6 7 8	Q (BY MR. ZELLERS) If we look down at the group below, the number of cases, the mean number of years of talc use among users is greater than 20 years, also for each of those groups; is that right?	2 3 4 5 6 7 8	of 2018; is that right?  MS. O'DELL: Object to the form.  A The systematic review that I described in my report has a lot of components. So one component is to do a complete comprehensive review of of what's been published.  And that involved doing the search, according obtaining all the papers, and then
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]	Page 102		Page 104
1	individual results that are meaningful. And if the	1	been done, I tried, in writing my report, to
2	methodology is combinable, to pool the sample size	2	highlight the details of what would be needed to
3	to get greater statistical power to come up with a	3	understand my result.
4	conclusion.	4	But I have not, for example, included
5	But your question about combining like	5	certain details that you would typically put in a
6	with like is is is very important.	6	journal article.
7	Q (BY MR. ZELLERS) In order for research to	7	So in a journal article, you would always
8	be useful, it must be valid, correct?	8	publish the version of SAS or R that was used for
9	A Yes.	9	the report. I I would not have included that.
10	Q Inaccurate and incomplete reporting of	10	And and I believe some of the documents
11	methods can make research unreasonable and unusable;	11	I shared with you that Dr. Hall provided to me on
12	is that right?	12	the methodology were included in the e-mail to me.
13	MS. O'DELL: Object to the form.	13	And I may not have included it in the
14	A I I I think there are separate	14	report, thinking that the reader would not you,
15	phases of research that need happen. I think the	15	for example, would be interested in some of those
16	reporting of methodology is so that other people can	16	biostatistical nuances.
17	duplicate your results, understand your results.	17	But when I publish it, I would put those
18	But in and of themselves, the reporting	18	in because the readership might care about them.
19	does not influence the reliability of the of the	19	Q You talked, I believe, a minute ago about
20	research.	20	abstracting data; is that right?
21	Q (BY MR. ZELLERS) Is reporting of	21	A Yes.
22	methodology important?	22	Q Is data abstraction one of the most
23	A I I think reporting of methodology so	23	important steps in conducting a meta-analysis or a
24	that other people can duplicate the results is	24	systematic review?
25	important.	25	Would you agree with that?
	Page 103		Page 105
1	So if if I move ahead as I'm planning	1	A I would agree with that.
2	to publish my systematic review, then I would	2	Q Would you agree that the accuracy of the
3	include greater details about the methodology so	3	data abstraction is very important to the validity
4	that other investigators could duplicate my work,	4	of the analysis?
5	should should they so choose.	I -	A I think one of the hallmarks of doing a
6	O At least as of now, other scientists or	5	A Tullink one of the fialiniarks of doing a
6	Q At least as of now, other scientists or	6	systematic review is, in fact, to have several
6 7	epidemiologists would not be able to reproduce what		
	epidemiologists would not be able to reproduce what you have done based upon your report	6	systematic review is, in fact, to have several people abstract the data points so that you can be assured that there are that they're done as
7 8 9	epidemiologists would not be able to reproduce what you have done based upon your report MS. O'DELL: Object	6 7 8 9	systematic review is, in fact, to have several people abstract the data points so that you can be assured that there are that they're done as accurately as possible, with the understanding of a
7 8 9 10	epidemiologists would not be able to reproduce what you have done based upon your report MS. O'DELL: Object Q (BY MR. ZELLERS) correct?	6 7 8 9 10	systematic review is, in fact, to have several people abstract the data points so that you can be assured that there are that they're done as accurately as possible, with the understanding of a single data abstraction by a single person can never
7 8 9 10 11	epidemiologists would not be able to reproduce what you have done based upon your report MS. O'DELL: Object Q (BY MR. ZELLERS) correct? MS. O'DELL: object to the form.	6 7 8 9 10 11	systematic review is, in fact, to have several people abstract the data points so that you can be assured that there are that they're done as accurately as possible, with the understanding of a single data abstraction by a single person can never be perfect.
7 8 9 10 11 12	epidemiologists would not be able to reproduce what you have done based upon your report MS. O'DELL: Object Q (BY MR. ZELLERS) correct? MS. O'DELL: object to the form. A I am I am not sure that that's the	6 7 8 9 10 11 12	systematic review is, in fact, to have several people abstract the data points so that you can be assured that there are that they're done as accurately as possible, with the understanding of a single data abstraction by a single person can never be perfect.  And so the more people that abstract and
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	Page 110		Page 112
1	A No.	1	Q Is that what you mean by "causal
2	Q is	2	association"?
3	A I understand. I	3	A Yes, it is.
4	Q What	4	Q What are the other causes of ovarian
5	A understand.	5	cancer?
6	Q do you mean when you say "causal	6	A So there's a whole long list of risk
7	association"?	7	factors for ovarian cancer.
8	A No. I I understand. I I apologize.	8	Q What is the difference between a risk
9	I was not getting there quite quickly enough.	9	factor and a cause?
10	Q That's all right.	10	A A risk factor is something that puts you
11	A So I did research on several topics that I	11	at increased risk, increases the probability that
12	thought were highly relevant to coming up with a	12	you will get ovarian cancer. And there are
13	causal determination, and I put those different	13	innumerable mechanisms and ways that that can go
14	pieces of research and expertise together in terms	14	about.
15	of the causality by specifically looking at the	15	But often not entirely, but often, you
16	Bradford Hill criteria.	16	don't think of risk factors as being things that you
17	Q I and I'm going to get to eventually, I	17	can alter. That's not entirely true.
18	hope, why you came up with whatever opinion you came	18	There are some risk factors. For example,
19	up with.	19	the use of well, the the most commonly cited
20	Right now I'm just trying to understand	20	risk factor for cancer in general is smoking, and
21	what you mean when you use the words "causal	21	that's clearly something that can be started or
22	association."	22	ended, that can be changed.
23	MS. O'DELL: Object to the form. Is there	23	But often you think of risk factors as
24	a specific case in her report that	24	things that can't be changed. So elevation in age,
25	Q (BY MR. ZELLERS) Sure. "Conclusion."	25	inherited genetics.
	Page 111		Page 113
1	Page 41 of the report, In conclusion, substantial	1	So those things lead to ovarian cancer,
2	evidence supports a strong, positive, and causal	2	the risk factors that I describe in my report. But
3	association between ovarian cancer and genital	3	most of them are not things that you can influence.
4	exposure to talcum powder products.	4	Some of them are, but most of them are not.
5	I just want to know what you mean when you	5	Where talcum powder products the use of
6	say "causal association."	6	perineal talcum powder products products is
7	MS. O'DELL: I think she answered your	1	1 1 1
		7	something that can be changed. That that is a
8	question.	7 8	something that can be changed. That that is a behavior, and so I think that's the distinction that
8 9	question.  But you may answer him, if you understand		behavior, and so I think that's the distinction that
	•	8 9	behavior, and so I think that's the distinction that I would make.
9	But you may answer him, if you understand	8	behavior, and so I think that's the distinction that I would make.  Q A risk factor is something that increases
9 10	But you may answer him, if you understand it.	8 9 10	behavior, and so I think that's the distinction that I would make.  Q A risk factor is something that increases the potential risk of a disease, but cannot be
9 10 11	But you may answer him, if you understand it.  A I I think that the the four sentences just above that says that, Summary consideration of causality of talc powder products	8 9 10 11	behavior, and so I think that's the distinction that I would make.  Q A risk factor is something that increases the potential risk of a disease, but cannot be changed, correct?
9 10 11 12	But you may answer him, if you understand it.  A I I think that the the four sentences just above that says that, Summary consideration of causality of talc powder products and ovarian cancer using the Bradford Hill.	8 9 10 11 12	behavior, and so I think that's the distinction that I would make.  Q A risk factor is something that increases the potential risk of a disease, but cannot be changed, correct?  MS. O'DELL: Object to the form.
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feeding or multiple pregnancies, oral

contraceptions, tubal ligation, or hysterectomy.

#### Rebecca Smith-Bindman, M.D.

#### Page 114 Page 116 Smoking is a possible risk factor. 1 the line from being a risk factor to being a cause? 1 2 A I -- I think what I was suggesting is it's 2 So all of those are in the category of 3 3 a blurry distinction. I think it's by convention risk factors for ovarian cancer. 4 things that cannot be modified are typically thought 4 Q My question goes to cause. Based upon 5 5 your review of the literature over the past year, as risk factors. Things that can be modified are 6 6 generally thought about as being in the causal what other causes of ovarian cancer have you 7 family -- pathway. 7 identified, if any? 8 But there's no distinction that you can 8 MS. O'DELL: Objection to form; asked and 9 9 separate something that increases your risk of answered. 10 10 something versus something that causes it. The --A There are other contributors to ovarian 11 11 cancer like pelvic inflammatory disease, which I the causal pathways could be the exact same causal 12 pathways in both situations. 12 think was on the list of what I just noted. 13 13 There are no other modifiable factors that Q What other causes are there of ovarian 14 14 I would put on the list of things that cause ovarian cancer? 15 15 cancer other than exposure to talc powder products. A So I'm guessing from what I have just said 16 16 Q (BY MR. ZELLERS) Based upon your review of that you are asking about causes and risk factors or 17 17 would you like them to be -the literature in terms of a cause for ovarian 18 Q Well, do you use "risk factor" and "cause" 18 cancer, the only cause that you have identified is 19 19 the regular perineal use of talcum powder by women, interchangeably or are they different? 20 MS. O'DELL: Object to the form; asked and 20 correct? 21 21 MS. O'DELL: Object to the form. answered. 22 2.2 A I -- I believe that by convention we Misstates her testimony. 23 typically describe risk factors that are things that 23 A I believe I just said that pelvic 24 cannot be altered. 24 inflammatory disease increases the risk of ovarian 25 25 But technically there is no difference cancer. Page 115 Page 117 1 between factors, covariants that influence your 1 Q (BY MR. ZELLERS) Is pelvic in --2 2 cancer risk that you can change or not. So I can MS. O'DELL: Excuse me. I'm sorry. Were 3 3 tell you the list of things that fall into those two you finished, Dr. Smith-Bindman? I mean, if you're 4 4 not, you -- you may continue. If so, I apologize --5 5 Q (BY MR. ZELLERS) All right. What I want A I--6 to know is: Based upon your review and your 6 MS. O'DELL: -- for interrupting you both. 7 7 research over the past year or so, other than A -- I was going to add that endometriosis 8 perineal use of talcum powder on a regular basis, 8 has been noted also as a contributor to --9 what other causes of ovarian cancer are there? 9 Q (BY MR. ZELLERS) Is -- are you finished? 10 10 A -- I am. A So in my report on page 11, I write that, 11 Numerous risk factors are identified for ovarian 11 Q Okay. Is pelvic inflammatory disease a 12 cancer. Unfortunately, few can be modified by 12 cause of ovarian cancer? 13 therapies or lifestyle changes. Risk factors 13 A I -- I -- you -- you keep asking me the 14 include personal or family history of -- of cancer, 14 same question, and I don't understand the 15 inherited mutations, BRC1 and BRC2, advanced age, 15 distinction that you are asking me to make between 16 white, race, education, endometriosis. 16 something that causes cancer and something that's a 17 Other factors that may increase --17 risk factor. 18 increase ovarian cancer due to estrogen exposure 18 In both situation -- situations there is a 19 include having no pregnancies or advanced age at 19 probability of getting a disease versus not getting 20 first birth, obesity, post menopausal hormone 20 a disease. There's no 100 percent association, and 21 21 so most people, as an analogy who smoke cigarettes, therapy. 22 Several factors I list are associated with 22 do not get lung cancer. It's fewer than 15 percent. 23 a decreased risk of ovarian cancer such as breast 23 Does smoking cause lung cancer? Yes. Is

it a risk factor for lung cancer? Yes. Is it a

single pathway that everyone who smokes, gets lung

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cancer? No.  So I you're asking me to make a distinction that I don't make in my head, so I'm I'm not sure all of the things I suggested as	1 2 3	Q (BY MR. ZELLERS) Have you done anything to advise the health community about your belief that
distinction that I don't make in my head, so I'm I'm not sure all of the things I suggested as		advise the health community about your belief that
I'm not sure all of the things I suggested as	3	
	1	there is a causal association between talcum powder
	4	use and ovarian cancer?
risk factors in some women will cause them to have	5	A I have mentioned to you that I have spoken
cancer.	6	about my review to several individuals, several
Q You are opining in this case that the	7	close mentors of mine in leadership roles within the
regular perineal use of talcum powder causes ovarian	8	healthcare community. So I
cancer, correct?	9	Q Who?
•		A not not individuals I am willing to
		name.
		Q You won't tell me who you have talked to
-		about your belief or your theory that there's a
		causal association between genital talcum powder use
· · · · · · · · · · · · · · · · · · ·		and ovarian cancer?
		A I would prefer not to share that
· · · · · · · · · · · · · · · · · · ·		information.
		Q Have you contacted any public health authorities such as the FDA or the National Cancer
		Institute?
		A I have not.
		Q Have you written any type of an op-ed or
		other news article on this topic?
		A Not yet. I have not.
		Q You have done that in the past; is that
Page 119		Page 121
exposure a modifiable exposure that I can think	1	right?
of that leads to getting ovarian cancer or causing	2	A Had you're asking if I have written
		op-eds on areas I have done research?
		Q Yes.
		A Yes, I have.
		Q Back in 2014, you did an op-ed in The New
		York Times relating to CT scans; is that right?
		A Yes, I did.
	-	Q All right. You concluded or at least put in the op-ed, In 2007, CT scans will cause 29,000
		excess cancer cases and 14,500 excess deaths; is
	l .	that right?
1	l .	A I don't have it in front of me. But it
answered.	l .	looks like you do, and so I'm going to guess that
	15	that's correct.
cancer. I diagnosis pelvic inflammatory disease.	16	Q Well, does that sound right to you?
But in an individual patient, I wouldn't tell a	17	A It does sound right.
patient why they got ovarian cancer.	18	Q You put in that editorial or op-ed that in
Q (BY MR. ZELLERS) You you have not, at	19	your opinion, 3 percent to 5 percent of all future
least as of this time, published on your theory that	20	cancers may result from exposure to medical imaging
there is a causal association between genital talcum	21	such as CT scans; is that right?
powder exposure and ovarian cancer; is that right?		MS. O'DELL: And if you have a
MS. O'DELL: Object to the form.	23	recollection and and you and your memory
A T 1	24	confirms those those facts places feel free to
A I have not published on my conclusion that talcum powder products causes ovarian cancer.	25	confirms those those facts, please feel free to testify to it. If you need to see the op-ed, then
	exposure a modifiable exposure that I can think of that leads to getting ovarian cancer or causing ovarian cancer.  Q (BY MR. ZELLERS) In in your practice as a radiologist, you do not evaluate what caused an individual patient's ovarian cancer; is that right?  MS. O'DELL: Object to the form.  A As a a radiologist, I do not.  Q (BY MR. ZELLERS) You don't diagnose what caused any individual patient's ovarian cancer; is that right, in your practice your medical practice.  MS. O'DELL: Objection, asked and answered.  A I I I do not. I diagnose ovarian cancer. I diagnosis pelvic inflammatory disease. But in an individual patient, I wouldn't tell a patient why they got ovarian cancer.  Q (BY MR. ZELLERS) You you have not, at least as of this time, published on your theory that there is a causal association between genital talcum powder exposure and ovarian cancer; is that right?	disease cause ovarian cancer?  A In some women, pelvic inflammatory disease will cause cancer.  Q You you would list a pelvic inflammatory disease will cause cancer.  Q You you would list a pelvic inflammatory disease as a cause of ovarian cancer; is that your testimony?  MS. O'DELL: Objection, asked and answered.  A I would include pelvic inflammatory disease with all the other ovarian cancer risk factors like BRCA1 and 2 as being one of a large number of contributors and risk factors for ovarian cancer.  There there is not no other  Page 119  exposure a modifiable exposure that I can think of that leads to getting ovarian cancer or causing ovarian cancer.  Q (BY MR. ZELLERS) In in your practice as a radiologist, you do not evaluate what caused an individual patient's ovarian cancer; is that right?  A As a a radiologist, I do not.  Q (BY MR. ZELLERS) You don't diagnose what caused any individual patient's ovarian cancer; is that right, in your practice your medical practice.  MS. O'DELL: Objection, asked and answered.  A I I I do not. I diagnose ovarian cancer; is that right, in your practice your medical practice.  Q (BY MR. ZELLERS) You don't diagnose what cancer. I diagnosis pelvic inflammatory disease.  But in an individual patient, I wouldn't tell a patient why they got ovarian cancer.  Q (BY MR. ZELLERS) You you have not, at least as of this time, published on your theory that there is a causal association between genital talcum powder exposure and ovarian cancer; is that right?

	Page 122		Page 124
1	I'm sure counsel would be willing to put it in front	1	of many pieces of information I used.
2	of you.	2	Q (BY MR. ZELLERS) Are you aware that in
3	A That particular statistic, I don't have to	3	their patient-facing websites, as well as their
4	see. I know that static	4	publicly available information about ovarian cancer,
5	Q (BY MR. ZELLERS) All right.	5	the CDC does not identify perineal use of talcum
6	A so yes.	6	powder as a risk factor for ovarian cancer?
7	Q You are familiar with the Center for	7	A Yes, I do remember seeing that.
8	Disease Control, correct?	8	Q You don't have any reason to believe that
9	A Yes, I am.	9	the folks at the CDC have not kept up to date with
10	Q The CDC or Center for Disease Control is a	10	talc and ovarian cancer epidemiology, do you?
11	reputable organization; is that right?	11	MS. O'DELL: Object to the form.
12	MS. O'DELL: Object to the form.	12	A I believe that the comprehensiveness of
13	A I think they're a very reputable	13	the review that I did and the amount of time that I
14	organization.	14	put into this review, as I have in in many other
15	Q (BY MR. ZELLERS) You have served on	15	reviews, requires a very deep dive into the
16	several committees for the CDC in the past; is that	16	literature.
17	right?	17	And I do not believe that the CDC has
18	A I currently work on several committees	18	funding or resources to do that kind of deep dive.
19	with them.	19	And so typically what they do is sort of review some
20	Q Do the doctors and scientists in the CDC	20	things that have been published. Most things, they
21	work hard to protect women's health, based on your	21	don't end up reviewing.
22	experience?	22	And so I have no reason to believe anyone
23	A Yes, they do.	23	at the CDC deliberately didn't do a comprehensive
24	Q In forming your opinions in this case, did	24	review of the literature, but nor do I have any
25	you consider the risk factors that the CDC	25	evidence that they did a comprehensive review of the
	Page 123		Page 125
1	recognizes for ovarian cancer?	1	literature.
2	A From my report, I read an enormous number	2	Q (BY MR. ZELLERS) Do you have any personal
3	of articles, and I spent considerably time	3	knowledge one way or the other as to the extent of
4	considering those articles from a data point of	4	the review of the science and literature that the
5	view.	5	CDC did in compiling its list of risk factors for
6	And I did not, for the most part, weigh		
7		6	ovarian cancer?
	other organization's summaries if they were not	6 7	ovarian cancer? A I
8	other organization's summaries if they were not quantitative and very explicit in what reviews they		
9	quantitative and very explicit in what reviews they did, what literature they included.	7	A I
_	quantitative and very explicit in what reviews they did, what literature they included.  And sometimes they organizations did do	7 8	A I MS. O'DELL: Object to the form.
9 10 11	quantitative and very explicit in what reviews they did, what literature they included.  And sometimes they organizations did do that, but did not do nearly as a comprehensive	7 8 9	<ul><li>A I</li><li>MS. O'DELL: Object to the form.</li><li>A I would have to refresh my memory by</li></ul>
9 10 11 12	quantitative and very explicit in what reviews they did, what literature they included.  And sometimes they organizations did do that, but did not do nearly as a comprehensive job. So I I would not have relied on any	7 8 9 10	A I MS. O'DELL: Object to the form. A I would have to refresh my memory by looking at their their website and documents. If
9 10 11 12 13	quantitative and very explicit in what reviews they did, what literature they included.  And sometimes they organizations did do that, but did not do nearly as a comprehensive job. So I I would not have relied on any professional organization's reviews unless they were	7 8 9 10 11	A I MS. O'DELL: Object to the form. A I would have to refresh my memory by looking at their their website and documents. If you provided those, I could.
9 10 11 12 13 14	quantitative and very explicit in what reviews they did, what literature they included.  And sometimes they organizations did do that, but did not do nearly as a comprehensive job. So I I would not have relied on any professional organization's reviews unless they were quantitative the way the way my own were?	7 8 9 10 11 12	A I MS. O'DELL: Object to the form. A I would have to refresh my memory by looking at their their website and documents. If you provided those, I could. Q (BY MR. ZELLERS) My question is: Do you
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	Page 126		Page 128
1	or did not do with respect to its review of the	1	MS. O'DELL: Object to the form.
2	literature?	2	A Naive to suggest that a single person
3	A Again, I don't know off the top of my	3	could just call them and say: I have looked at this
4	head. But I know I went to their website, and I	4	topic, and you should change what you are doing.
5	don't	5	Q (BY MR. ZELLERS) Are you familiar with the
6	Q Other than looking at their website, do	6	National Institute of Health?
7	you have any personal knowledge?	7	A I am.
8	A No, I do not.	8	Q You have received funding from the
9	Q All right. Have you communicated to	9	National Institute of Health; is that right?
10	anyone at the CDC that you disagree with their	10	A I have.
11	position?	11	Q Do you know that the National Institute of
12	A I I'm laughing at the nature of the	12	Health does not list talc use as a risk factor for
13	question. There wouldn't be anyone at the CDC to	13	ovarian cancer?
14	disagree with.	14	MS. O'DELL: Object to form.
15	Q There there's no one at the CDC that	15	A Again, I yeah, I know that the NCI, PDQ
16	you, as a concerned radiologist, could go to and	16	that writes reports for patients and clinicians
17	say: Hey, I think that you should list perineal	17	about risk factors for cancer has a report on risk
18	talc use as a risk factor for ovarian cancer?	18	factors for ovarian cancer and that they conclude
19	MS. O'DELL: Object to the form.	19	that there's inadequate evidence for talc.
20	Q (BY MR. ZELLERS) There's no one you could	20	Q (BY MR. ZELLERS) Inadequate evidence,
21	talk to at the CDC about that?	21	correct?
22	A I I would I would have to confirm	22	A I I I wasn't finished.
23	that that I have been I I study	23	Q Please finish.
24	environmental carcinogens.	24	A So they don't stand just to clarify,
25	And you pointed out my New York Times	25	for the National Institute of Health. It's a very
23	And you pointed out my New Tork Times	23	for the National histitute of Heath. It's a very
	Page 127		Page 129
1	Page 127 op-ed that put a message out there that said: I	1	Page 129 prestige body. It's an organization within a small
1 2		1 2	
	op-ed that put a message out there that said: I think this is an environmental carcinogen.  And I have spoken about that topic in many		prestige body. It's an organization within a small part of the NCI.  I know it well, because I served on that
2	op-ed that put a message out there that said: I think this is an environmental carcinogen.  And I have spoken about that topic in many forms. I have testified before Congress several	2	prestige body. It's an organization within a small part of the NCI.  I know it well, because I served on that committee for many years. I know the process
2 3 4 5	op-ed that put a message out there that said: I think this is an environmental carcinogen.  And I have spoken about that topic in many forms. I have testified before Congress several times. I testified to the FDA. I have spoken to	2 3 4 5	prestige body. It's an organization within a small part of the NCI.  I know it well, because I served on that committee for many years. I know the process whereby they review the literature and created a
2 3 4 5 6	op-ed that put a message out there that said: I think this is an environmental carcinogen.  And I have spoken about that topic in many forms. I have testified before Congress several times. I testified to the FDA. I have spoken to CMS.	2 3 4 5 6	prestige body. It's an organization within a small part of the NCI.  I know it well, because I served on that committee for many years. I know the process whereby they review the literature and created a whole a bunch of standards within what they do
2 3 4 5 6 7	op-ed that put a message out there that said: I think this is an environmental carcinogen.  And I have spoken about that topic in many forms. I have testified before Congress several times. I testified to the FDA. I have spoken to CMS.  All of that took years to get people to	2 3 4 5 6 7	prestige body. It's an organization within a small part of the NCI.  I know it well, because I served on that committee for many years. I know the process whereby they review the literature and created a whole a bunch of standards within what they do around that.
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2 3 4 5 6 7 8 9	op-ed that put a message out there that said: I think this is an environmental carcinogen.  And I have spoken about that topic in many forms. I have testified before Congress several times. I testified to the FDA. I have spoken to CMS.  All of that took years to get people to hear those messages. It was not that: Oh, I see there's a problem here. Let me just tell the top person to do that.	2 3 4 5 6 7 8 9	prestige body. It's an organization within a small part of the NCI.  I know it well, because I served on that committee for many years. I know the process whereby they review the literature and created a whole a bunch of standards within what they do around that.  And I looked and saw that they updated their summary of talc in 2018. And — and yet, within that summary, they do list the references
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	Page 130		Page 132
1	of talcum powder as a risk factor for ovarian	1	include modifiable and nonmodifiable parameters.
2	cancer?	2	Is that right? And then it lists out
3	A So I I I don't know what I'm	3	nonmodifiable parameters and modifiable parameters;
4	sorry. I don't know what you're talking about,	4	is that right?
5	the	5	A Yes, that's what this
6	Q All right.	6	Q Talcum
7	A NIH.	7	A says.
8	Q Take a look, if you will, at Deposition	8	Q powder use is not listed, correct?
9	Exhibit 19, which is captioned NIH steer or	9	A Correct.
10	"SEER, S E E R, Training Modules" and has got "Risk	10	Q All right. Take a look, if you will
11	Factors" at the top.	11	and this is the document that you were talking about
12	(Exhibit 19 was marked for identification	12	a moment ago at Deposition Exhibit 20.
13	and is attached to the transcript.)	13	(Exhibit 20 was marked for identification
14	MS. O'DELL: Thank you.	14	and is attached to the transcript.)
15	A So SEER is also a part of National Cancer	15	Q (BY MR. ZELLERS) This is the "National
16	Institute. It's the surveillance epidemiology	16	Cancer Institute Review of Ovarian, Fallopian Tube,
17	MR. LAPINSKI: Have her wait for a	17	and Primary Peritoneal Cancer Prevention PDQ"; is
18	question.	18	that right?
19	MS. O'DELL: Sorry. Just wait for his	19	A Yes, it is.
20	question. Yeah, thanks, Dan.	20	Q This is the document that you told us a
21	Q (BY MR. ZELLERS) You recognize Exhibit 19	21	few minutes ago that you disagree with the
22	as a training module from NIH and specifically from	22	conclusion; is that right?
23	the National Cancer Institute; is that right?	23	And specifically if you go to page 5 of 9
24	A So this says at the top "SEER Training	24	under "Perineal Talc Exposure," the statement from
25	Modules."	25	the National Cancer Institute in this document is
	Page 131		Page 133
1	I don't know what this is. I know SEER	1	that the weight of evidence does not support an
2	quite well. It's the National Cancer Registries.	2	association between perineal talc exposure and an
3	But I I don't don't know what this training	3	increased risk of ovarian cancer. Results from
4	module is. But I do see that you are showing me	4	case-control and cohort studies are inconsistent.
5	some risk factors.	5	Is that right?
6	Q Talc is not listed as a risk factor for	6	A That is what they conclude.
7	ovarian cancer in this document, Exhibit 19, that	7	Q This was updated, if you looked at the
		· ·	
8	was updated in June of 2018 from NIH and the	8	last page, page 9 of 9, on January 4 of 2019; is
9	National Cancer Institute; is that right?	8 9	last page, page 9 of 9, on January 4 of 2019; is that right?
9 10	National Cancer Institute; is that right?  A I I want to sort of explain my	8	last page, page 9 of 9, on January 4 of 2019; is that right?  MS. O'DELL: Object to the form.
9 10 11	National Cancer Institute; is that right?  A I I want to sort of explain my confusion. The SEER, Surveillance, Epidemiology,	8 9 10 11	last page, page 9 of 9, on January 4 of 2019; is that right?  MS. O'DELL: Object to the form.  A Can you show me where it's been updated?
9 10 11 12	National Cancer Institute; is that right?  A I – I want to sort of explain my confusion. The SEER, Surveillance, Epidemiology, and End Result, program does not train or educate	8 9 10 11 12	last page, page 9 of 9, on January 4 of 2019; is that right?  MS. O'DELL: Object to the form.  A Can you show me where it's been updated?  Q (BY MR. ZELLERS) Sure. Look at the very
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	Page 134		Page 136
1	read it off the screen?	1	awful lot of Johnson & Johnson baby powder over the
2	A I can read it off the screen. I think	2	last 50 plus years. And and I am
3	epidemiologic data can provide an enormous amount of	3	Q (BY MR. ZELLERS) And
4	information about causation. But there are other	4	A not sure whether there's lots of other
5	considerations that would have to be also taken into	5	dominant players in the space. I I don't know
6	account to also support that.	6	that.
7	Q Can epidemiologic data alone permit a	7	My impression is that Johnson baby
8	determination regarding causation?	8	powder baby is a Johnson & Johnson a product very,
9	MS. O'DELL: Object to the form.	9	very often.
10	A I think epidemiologic data can be used in	10	Q But you have not done any type of survey
11	combination with other data to determine causality,	11	
12	but by itself cannot be used alone to determine	12	A I have
13	causality.	13	Q or analysis?
14	Q (BY MR. ZELLERS) The current epidemiologic	14	A I have not.
15	data, as it exists, does not enable someone to	15	Q If the biological mechanism by which a
16	distinguish between brands of cosmetic talc	16	talcum powder product can increase the risk of
17	products; is that right?	17	ovarian cancer is because of a particular
18	MS. O'DELL: Object to the form.	18	contaminant or collection of contaminants, but that
19	A I would agree.	19	contaminant or collection of contaminants does not
20 21	Q (BY MR. ZELLERS) You can't tell in any of the 40 plus studies that you reviewed, that the	20	exist in all talcum powder products, will the
22	women who were involved in those studies used talc	22	epidemiologic evidence that exists today allow you to see that distinction?
23	products manufactured by Johnson & Johnson	23	MS. O'DELL: Object to the form.
24	Consumer, Inc., or by another company; is that	24	A You're asking about contaminants of talcum
25	right?	25	powder products. My understanding from what I have
	ng		powder products. My understanding from what I have
	Page 135		Page 137
1	MS. O'DELL: Object to the form.	1	Page 137 reviewed is that the components of talcum powder
1 2	MS. O'DELL: Object to the form.  A I I would agree that most of the papers	2	reviewed is that the components of talcum powder products include asbestos, include fibrous talc,
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2 3 4 5	MS. O'DELL: Object to the form.  A I I would agree that most of the papers that I read did not specify what the source of the baby powder was.  Q (BY MR. ZELLERS) Based on the analysis	2 3 4 5	reviewed is that the components of talcum powder products include asbestos, include fibrous talc, include heavy metals, include fragrances.  Let's get rid of the header the the fragrances. Just the heavy metals, the
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	Page 138		Page 140
1	Q (BY MR. ZELLERS) Yes.	1	manufactured by Johnson & Johnson?
2	A Yes, I I feel very certain that talcum	2	MS. O'DELL: Object to the form. to the
3	powder products, at least over many years, contained	3	form.
4	asbestos.	4	A So unlike the question about heavy metals
5	Q Is that part of your opinion in this case?	5	where it sort there are traces of heavy metals in
6	A Yes, it is.	6	other things to which we're exposed regularly, like
7	Q Is it your opinion in this case that	7	water. We don't expect any concentrations of
8	talcum powder products contain trace amounts of	8	asbestos in products that we're exposed to.
9	heavy metals?	9	And so put in that context, while I'm not
10	A Yes, it is.	10	an expert in the mineralogy, the numbers that I have
11	Q Is it also part of your opinion in this	11	seen are tens of thousands to millions of fibers
12	case that talcum powder products contain different	12	that might be in grams of product seem like an awful
13	fragrance chemicals?	13	lot of units or dose of of asbestos or fibrous
14	A Yes, it is.	14	talc.
15	Q Do you have any opinion as to how many	15	MR. ZELLERS: Move to strike as
16	fragrance chemicals are contained in talcum powder	16	nonresponsive.
17	manufactured by a Johnson & Johnson company at any	17	Q (BY MR. ZELLERS) You do not have personal
18	time?	18	knowledge as to any amounts or concentrations of
19	MS. O'DELL: Object to the form. With	19 20	asbestos in talcum powder manufactured by Johnson &
20 21	regard to "opinion."  A I have seen long lists of chemicals and	21	Johnson MS_O'DELL: Objection
22	fragrances that are contained.	22	MS. O'DELL: Objection. Q (BY MR. ZELLERS) correct?
23	I'm not familiar enough with with the	23	MS. O'DELL: Objection, asked and
24	testing that was done to understand how that's	24	answered.
25	changed over time in a Johnson & Johnson product	25	A I have seen several reports of Johnson &
	changed over time in a somison & somison product	23	A Thave seen several reports of Johnson &
	Page 139		Page 141
1	versus other talcum powder products.	1	Johnson products that have been tested for
2	Q (BY MR. ZELLERS) Do you have any opinion	2	concentrations of asbestos or asbestiform talc that
3	or knowledge as to the amount or concentration of	3	have concentrations shown kind of in ranges of a
4	particular fragrance chemicals that are contained in	4	tenth of a percent or, as I mentioned, tens of
5	talcum powder manufactured by Johnson & Johnson?	5	thousands or mid millions of fibers.
6	A I I do not.	6	And those have been tested by by
7	Q Do you have any opinion or knowledge as to	7	several different people, but coming up with units
8	the amount or concentration of trace chemicals	8	of dose within Johnson & Johnson talcum powder
9	strike that trace heavy metals that may be	9	products.
10	contained in talcum powder manufactured by Johnson &	10	Q (BY MR. ZELLERS) You're not a geologist,
11	Johnson?	11 12	correct?
12	A I have seen reports of the amounts that		A I am not a geo
13	you know, sort of in the ballpark of hundreds to	13	Q You're A logist.
14	thousands of parts per million.	15	Q not a mineralogist, correct?
15	But I'm not an expert in understanding	16	A I am not.
16	those numbers in comparison to the concentrations in	17	Q You have reviewed some expert reports from
17	other things that we're exposed to. They're much	18	Dr. Longo; is that right?
18	higher. They're orders of magnitudes higher, but	19	A Among others, yes.
19	I'm not an expert to understand how those different	20	Q You have reviewed some testing reports.
20	concentrations might be expected to have an	21	Some purportedly show that there is asbestos present
21	influence on talc.	22	in talcum powder and some that show that there's not
22	Q The same question with respect to asbestos. Do you have any opinion or knowledge as	23	asbestos in talcum powder; is that right?
	ANDENON LIO VOIL HAVE AUV ODINION OF KNOWIEGUE AS	1	
23		24	MS. O'DELL: Object to the form.
	to the amount or concentration of asbestos that you believe is contained in any talcum powder	24 25	MS. O'DELL: Object to the form.  A I have seen a lot of reports that have

	Page 142		Page 144
1		1	off the record for a moment.
2	shown the presence of talcum powder containing asbestos and fibrous talc.	2	THE VIDEOGRAPHER: We're off the record at
3	You listed some of those, the Longo	3	1:36 p.m.
4	reports, a bunch of publications in the literature	4	(A break was taken from 1:36 p.m. to
5	such as Blount's.	5	1:37 p.m.)
6	I have seen some testing from Dr. Hopkins,	6	THE VIDEOGRAPHER: We are back on the
7	from Imerys, from Cooke. I have also seen some	7	record. The time is 1:37 p.m.
8	negative reports.	8	Q (BY MR. ZELLERS) Dr. Smith-Bindman, you
9	Q (BY MR. ZELLERS) The answer to my question	9	had recalled, I believe, the name of the fourth
10	is: Yes, you have seen testing that purportedly	10	plaintiff lawyer that you met with?
11	shows there to be some asbestos in the J&J	11	A Carmen Scott.
12	manufactured talcum powder and you have seen reports	12	Q I want to ask you some questions about the
13	that, you know, indicate there's not asbestos in the	13	systematic review that you did. You have not
14	talcum powder; is that fair?	14	published that, correct?
15	A The way that you have described it makes	15	A I have not.
16	it seem like I have seen comprehensive reports that	16	Q If at any point you do publish your
17	have shown in totality there is asbestos and reports	17	systematic review, would you disclose that you are a
18	that have shown there's not. I haven't seen that.	18	paid expert for the Plaintiffs in the talcum powder
19	Q All right.	19	litigation?
20	A I have seen reports that have shown in	20	A Yes, I would.
21	totality there are. I have seen individual samples	21	Q You would expect any expert who is paid to
22	that have shown there's not asbestos in those	22	perform a review or who has a study funded by
23	individual samples.	23	Plaintiffs to make that disclosure, correct?
24	But I haven't seen a systematic report	24	MS. O'DELL: Object to the form.
25	that have shown in, for example, a large number of	25	A My understanding from my experience is
	Page 143		Page 145
1		1	
1 2	specimens, none had asbestos. I haven't seen that.	1 2	that different journals require different
2	specimens, none had asbestos. I haven't seen that.  Q You have seen, at least in large part, the	2	that different journals require different disclosures. So if you're paid by someone, you
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#### Rebecca Smith-Bindman, M.D.

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through those and to review to make sure that they had primary data.

So part of my conclusion was based on my own systematic review. And then part of my conclusion was based on my review of the published literature on the actual epidemiology data, as well as other considerations that went into consideration of the Bradford Hill criteria such as mechanistic data and any other requirements of Bradford Hill.

So I was only interested in studies that had primary data, which meant that review articles or editorials or letters to the editors or opinion pieces were dropped from that list.

Q Tell us step by step how you performed your systematic review or analysis. And now I'm referring to the meta-analysis or meta-analysis-like review that you did.

So then I had data that were -- I had studies that had primary data, so that became my list of articles.

A Okay. So I would just like to do a slight preamble to that, which is that the direction that my review took was partly informed by having read through a number of articles on the topic. So determining sort of where there was a gap, what was the most important area to focus on. So that sort of was the background.

And -- and then I created a data abstraction form for what variables I wanted to include. So some variables are the number of cases; the number of controls; the kind of study design whether it was a case-control study or another design.

And then for the review, the literature search is the first step. So you want to broadly identify all relevant literature, published and unpublished, to include.

cared most about. So you mentioned serous cancer, so I included what kind of histologies they looked I included in my initial data form,

It included -- included the groups that I

And that includes searching on several databases -- PubMed was -- Medline were -- Embase, variables that I ended up not using in my review because I didn't have enough data.

So in my initial draft of variables that I might like to abstract was the relationship in pre versus postmenopausal women.

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Scopus were -- were databases that I started my search.

I included in the report some of the keywords I used, keywords including "ovarian cancer, talc, perineal powder, genital powder."

So I generated a long list of articles that I retrieved and then reviewed the references for each of those articles, which usually doesn't identify a lot more articles, but usually identifies a few that I may have missed in my search, but that other people have found in their reviews or systematic reviews. So the first step was to identify the literature.

Q What was the next step? And again, I'm focused on your methodology for the systematic review or analysis that you did, as reflected in your report?

A So the second step is: Identified a large number of publications, but some of them may not have been particularly relevant.

For example, they may have sounded in the title like they were primary data, but they may have actually only been review data.

So Step 2 is to review the abstracts for all of those identified articles and then to go

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But when I ended up reviewing articles, there just was not -- not enough data there to make sense of, so I created a data abstraction form.

I then went one by one through the articles which I organized and abstracted the data that I had set out to do.

And in the course of doing that, I would ensure that the participants that were described in those reports were, in fact, unique subjects.

So within this field, just like many fields, people sometimes publish an individual patient in more than one study. And -- and you don't want to include that, if you can.

So as part of my review was to determine how independent the patients were and to make a note if there was overlap.

I also didn't mention some of the features that I abstracted. But it wasn't just the primary result, which was what was the adjusted odds ratio or risk ratio associated with exposure to talcum powder products, but it was also -- what I was most interested in is quantifying that exposure to a degree that had not been present in all the individual reviews that I had previously said. So I was interested primarily in abstracting data on

	Page 150		Page 152
1	regular exposure to talcum powder.	1	Q That's what Dr. Hall did; is that right?
2	So when I went through the articles, I	2	A That is what Dr. Hall did. I should have
3	noted whether what the point estimates were, but	3	a caveat there. We she absolutely lead that part
4	also whether they had information on all of the	4	of the analysis, but I reviewed every step of that
5	things that were in my database.	5	very carefully.
6	I went through and abstracted data several	6	And there were several places that I
7	times.	7	I I saw errors in some of the calculations that
8	Q Okay. Well, that's	8	we went back and forth on to correct those
9	A Oh.	9	calculation errors.
10	MS. O'DELL: She may not be done but	10	Q Have you completed your methodology or the
11	Q (BY MR. ZELLERS) Well, I understand. So	11	different steps in your methodology?
12	I'm just trying to go through your methodology here.	12	MS. O'DELL: In terms of the
13	So after you abstracted the data and	13	meta-analysis?
14	included it or put it on your data abstraction form	14	Q (BY MR. ZELLERS) Yes. In terms of the
15	for each study, what was the next step in your	15	systematic review or meta-analysis that you did.
16	systematic review?	16	A I believe I have highlighted all the
17	MS. O'DELL: So just continue on, Doctor,	17	steps.
18	what your process was.	18	Q You tried or did correct any errors in
19	A Okay. Well so the next step was to	19	calculations or numbers by Dr. Hall; is that right?
20	decide which which of those papers might have	20	MS. O'DELL: Object to the form.
21	been missing data.	21	A Yes, I did.
22	So once I abstracted the data, there were	22	Q (BY MR. ZELLERS) Did anyone else review
23	gaps almost certainly in the data. And so I I	23	your calculations and Dr. Hall's calculations?
24	just wanted to emphasize I was starting to say	24	A No. Just the two of us.
25	this earlier that I I went back to the papers	25	You said something, that I corrected some
	Page 151		Page 153
1	and tried to sort of ensure that I was consistently	1	of her numbers. I she also corrected some of my
2	pulling the data in my database requirement for	2	numbers.
3	every study.	3	It was a bi-directional two set of eyes on
4	After I did that, the next step would be	4	all of the analysis
5	to combine the data statistically. And that would	5	Q I
6	be to pro perform steps to figure out how the	6	A and abstractions.
7	data can be could be combined.	7	<ul> <li>Q essentially what you did is you</li> </ul>
8	And that required looking at issues of	8	analyzed the studies. You abstracted data on each
9	consistency across the studies or heterogeneity and	9	of the studies on your Data Abstraction Form,
10	then to make sure that the sub analysis that I	10	correct?
11	wanted to do the stratified analysis that I	11	A Yes.
12	wanted to do could be done based on whether I had	12	Q Have you produced your Data Abstraction
13	data for each of those studies in the stratified	13 14	Forms to us for review?  A I I believe I have.
14	category.	14	Q All right. You have them available; is
15	So as an example, I wanted to make sure	16	that right?
16	that I I had whatever information was in the	17	A Yes.
17	paper that could then go to the next step of	18	Q And this would be a form for each of the
18	analysis.	19	studies in which you went through and you abstracted
19	And so that's when, actually, I reached	20	data; is that right?
20	out to a biostatistician with expert in the	21	A It's
21	biostatistical aspect to do two things: To both	22	MS. O'DELL: Object to the form. Sorry.
22	double-check my numbers and ensure that the numbers	23	Go ahead.
23 24	that had been abstracted correctly and then to do	24	A yeah, it's it's an electronic
25	the biostatistical analysis and generate the graphical representation of the data.	25	database. It's an Excel file.
	Stapment representation of the data.		

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-	Page 154		Page 156
1	Q (BY MR. ZELLERS) But there would be a form	1	times week or more as possible and that I would
2	or an Excel sheet for each of the studies where you	2	focus on invasive serous cancer wherever possible.
3	abstracted the data; is that right?	3	And so if that if that's what you mean
4	MS. O'DELL: Object to the form.	4	by my "protocol," then yes, that was written down
5	A There's an Excel sheet with each study	5	ahead of time.
6	listed as a separate line of data and many, many	6	Q (BY MR. ZELLERS) I'm confused. Do you
7	rows columns for each it's not a physical	7	define well and No. 1, did you produce that
8	piece of paper and	8	protocol?
9	Q (BY MR. ZELLERS) But it's something that	9	A So I have I have my notes and which
10	could be printed out; is that right?	10	was part of the documents that you saw earlier
11	A Yes.	11	today.
12	Q All right. Did you develop any type of	12	Q The notes, you would describe as your
13	protocol setting forth the different steps that you	13	protocol or an outline of your methodology?
14	followed to do your systematic analysis that you	14	A Yes.
15	have told us about?	15	Q All right. We'll mark your notes, which
16	A The protocol that I followed for these	16	are your protocol, as Exhibit 21.
17	steps is a very well-established, well-published	17	(Exhibit 21 was marked for identification
18	including by myself from any prior reviews	18	and is attached to the transcript.)
19	protocols.	19	Q (BY MR. ZELLERS) And it's just the one
20	Q My question is: Did you write down	20	side sheet; is that right?
21	anywhere, the protocol that you followed for doing	21	A I believe I provided other documents in
22	this particular systematic review?	22	the datasheet that also has the notes of what group
23	MS. O'DELL: Object to the form.	23	I was focusing on in e-mails that I have sent you.
24	A I did not specifically write down for this	24	Q That would be other materials that you
25	review that I would do a literature search or	25	have produced; is
	Page 155		Page 157
1		1	Page 157 A That's
1 2	Page 155 abstract data and record points and then do the analysis.	1 2	
	abstract data and record points and then do the		A That's
2	abstract data and record points and then do the analysis.	2	A That's Q the right?
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2 3 4	abstract data and record points and then do the analysis.  Q (BY MR. ZELLERS) What you have done in your systematic review is a subgroup analysis of	2 3 4	A That's Q the right? A correct. Q To your knowledge, there's nothing that you have not produced A No.
2 3 4 5	abstract data and record points and then do the analysis.  Q (BY MR. ZELLERS) What you have done in your systematic review is a subgroup analysis of those studies that you thought should be included;	2 3 4 5	A That's Q the right? A correct. Q To your knowledge, there's nothing that you have not produced
2 3 4 5 6	abstract data and record points and then do the analysis.  Q (BY MR. ZELLERS) What you have done in your systematic review is a subgroup analysis of those studies that you thought should be included; is that fair?  A I call it a stratified analysis rather than a subgroup analysis. Usually a subgroup	2 3 4 5 6	A That's Q the right? A correct. Q To your knowledge, there's nothing that you have not produced A No. Q relating hold A Okay.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	abstract data and record points and then do the analysis.  Q (BY MR. ZELLERS) What you have done in your systematic review is a subgroup analysis of those studies that you thought should be included; is that fair?  A I call it a stratified analysis rather than a subgroup analysis. Usually a subgroup analysis is usually used to describe only limiting to certain groups of patients as opposed to some questions. So I I'm not sure that there's a distinction but  Q Well, you whether we call it a subgroup or whether we call it a stratified analysis, you went through the studies to try to find the studies that would give you information on women who were regular users, as you defined "regular users," and who developed invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A Yes, that's what I did.  When you asked about whether I have a protocol written down, I have written that I was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A That's Q the right? A correct. Q To your knowledge, there's nothing that you have not produced A No. Q relating hold A Okay. Q on. Let me finish. There's nothing, to your knowledge, that you have not produced relating to your analysis; is that right? A That's correct. Q I was confused. I thought you stated a moment ago that you defined "regular use" as the use of talcum powder three times a week or more. Is that your definition of "regular use"? A I MS. O'DELL: Object to the form. A I describe the definition in my report on page 32. And Q (BY MR. ZELLERS) My question just is: Is that the correct definition or did you use a

	Page 158		Page 160
1	describe your	1	A page
2	A So I I	2	MS. O'DELL: go ahead.
3	MS. O'DELL: definition.	3	A 32.
4	A have listed how I have defined it. And	4	Q (BY MR. ZELLERS) You have defined "regular
5	it's a little bit more more nuanced than what you	5	use" in your report on page 32; is that right?
6	have just asked me to confirm.	6	A Yes.
7	Q (BY MR. ZELLERS) What is your definition	7	Q What is Dr. Hall's field of expertise?
8	of "regular use" with respect to the systematic	8	A She is a biostatistician who is does a
9	review and analysis that you did?	9	lot of summaries of systematic review.
10	A So I have written, Regular use was defined	10	Q You are not a biostatistician; is that
11	ideally as daily or at least more than three uses	11	right?
12	per week.	12	A I did a two-year post-graduate fellowship
13	Q More than three uses a week; is that	13	in the Department of Epidemiology and Biostatistics,
14	right?	14	have taken many courses in biostatistician
15	A I I wasn't finished. May I finish?	15	biostatistics, and have thought classes in biostatus
16	Q Sure.	16	
17	A "I also accepted studies that defined	17	Q Do you con
18	"use" as regular where the description made it clear	18	A statistics.
19	that this was regular use.	19	Q do you consider yourself to be an
20	A study that reported regular use, but	20	expert biostatistician?
21	defined it as less as used less frequency	21	A I consider myself an expert in
22	at use of less than as frequency were not	22	biostatistics.
23	included.	23	Q And Dr. Hall is also an expert in
24	Regular use was selected to differentiate	24	biostatistics; is that right?
25	occasional use, which may include one-time	25	A Yes.
	Page 159		Page 161
1	infrequent use or used along a particular time of a	1	Q Do you know well, did you conduct your
2	woman's menstrual cycle from sustained use.	2	systematic review and analysis using the PRISMA
3	Studies that ask participants a single	3	standards?
4	question about every use of talc without further	4	A Yes.
5	quantification of exposure were not included for the	5	Q And those are the preferred reporting
6	summary.	6	items for systematic reviews and meta-analyses; is
7	For example, Perdue reported that 52 to	7	that right?
8	57 percent of women ever using talc without further	8 9	A Yes.
9	quantification was not included."	1 -	Q What materials did you provide to Dr. Hall
10	THE COURT REPORTER: Please slow down.	10	to assist you with your review?  A I provided her with the data abstraction
11	Q (BY MR. ZELLERS) Okay.	12	table that had information about each of the
12	A Yes.	13	included studies.
	Q Doctor, I just wanted to know your		Q The data abstraction table that you
13	definition of "regular use "	1 1 1	
14	definition of "regular use."  A. L., L. Land have spent considerable time	14	
14 15	A I I I have spent considerable time	15	prepared; is that right?
14 15 16	A I I I have spent considerable time both writing my definition and applying it to	15 16	prepared; is that right?  A Yes.
14 15 16 17	A I I I have spent considerable time both writing my definition and applying it to Q What	15 16 17	prepared; is that right?  A Yes.  Q What specifically did Dr. Hall do to
14 15 16 17 18	A I I I have spent considerable time both writing my definition and applying it to Q What A the papers.	15 16 17 18	prepared; is that right?  A Yes.  Q What specifically did Dr. Hall do to assist you?
14 15 16 17 18 19	A I I I have spent considerable time both writing my definition and applying it to Q What A the papers. Q what page	15 16 17 18 19	prepared; is that right?  A Yes. Q What specifically did Dr. Hall do to assist you? A She did two things. She personally
14 15 16 17 18 19 20	A I I I have spent considerable time both writing my definition and applying it to Q What A the papers. Q what page MS. O'DELL: Excuse me, sir. If you were	15 16 17 18 19 20	prepared; is that right?  A Yes. Q What specifically did Dr. Hall do to assist you? A She did two things. She personally reabstracted data from all of the publications.
14 15 16 17 18 19 20 21	A I I I have spent considerable time both writing my definition and applying it to Q What A the papers. Q what page	15 16 17 18 19 20 21	prepared; is that right?  A Yes. Q What specifically did Dr. Hall do to assist you? A She did two things. She personally reabstracted data from all of the publications.  Most of those publications she found on her own.
14 15 16 17 18 19 20 21	A I I I have spent considerable time both writing my definition and applying it to Q What A the papers. Q what page MS. O'DELL: Excuse me, sir. If you were asking for the page, she can direct you to the page	15 16 17 18 19 20 21 22	prepared; is that right?  A Yes. Q What specifically did Dr. Hall do to assist you? A She did two things. She personally reabstracted data from all of the publications. Most of those publications she found on her own. But for a couple, she was not able to find them, and
14 15 16 17 18 19 20 21 22 23	A I I I have spent considerable time both writing my definition and applying it to Q What A the papers. Q what page MS. O'DELL: Excuse me, sir. If you were asking for the page, she can direct you to the page Q (BY MR. ZELLERS) What page	15 16 17 18 19 20 21 22 23	prepared; is that right?  A Yes. Q What specifically did Dr. Hall do to assist you? A She did two things. She personally reabstracted data from all of the publications. Most of those publications she found on her own. But for a couple, she was not able to find them, and I provided electronic versions of them.
14 15 16 17 18 19 20 21	A I I I have spent considerable time both writing my definition and applying it to Q What A the papers. Q what page MS. O'DELL: Excuse me, sir. If you were asking for the page, she can direct you to the page	15 16 17 18 19 20 21 22	prepared; is that right?  A Yes. Q What specifically did Dr. Hall do to assist you? A She did two things. She personally reabstracted data from all of the publications. Most of those publications she found on her own. But for a couple, she was not able to find them, and

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#### Page 164 Page 162 1 calculate forest plots and summary-weighted 1 A I would not do it in that order. I -- I 2 2 estimates. generated the research questions first. 3 3 Q (BY MR. ZELLERS) You generated the Q What could Dr. Hall do with respect to 4 4 your analysis that you could not? research questions after doing the initial 5 5 A I did not know how to use the software to literature review you told us about this morning, 6 generate the graphs. And I thought that by the time 6 correct? 7 I learned how to use that software, it would be a 7 A I --8 8 MS. O'DELL: Object to the form. lot more efficient for her to generate them. 9 O What did you do to check Dr. Hall's work 9 A -- yes. 10 10 to make sure it was accurate? Q (BY MR. ZELLERS) All right. You 11 11 identified ten studies that discuss what you define A Dr. Hall sent me back my data abstraction 12 12 as "regular talc powder product use and risk of database where she had double-checked all of my 13 13 numbers and sent -- I think there were several data ovarian cancer," and those are what you list on a 14 14 points where she had questions about either whether page 33 of your report; is that right? 15 I abstracted the right number or put it in the right 15 A That's close to correct. I would include 16 16 in that another study, the Terry study, which is a category. 17 17 And of all of the items that she had large study that pulls data from a bunch of other 18 suggestions -- I think it was a small number -- I 18 component studies -- you can see on the top of 19 went back to the original article to -- to confirm 19 page 34 -- whether or not Terry was included or 20 or refute whether I agreed with her changes or not. 20 excluded. The results were basically identical. 21 Sort of a way to -- by consensus to decide what the 21 Q I'm just looking at your report. Your 22 right answer was. That was part of what I did. I 22 report, on page 33, in Figure 2, you identify ten 23 23 studies that discuss what you define as "regular 24 24 talc powder product use and risk of ovarian cancer," Q How -- did you finish? 25 25 A -- no. correct? Page 163 Page 165 1 Q All right. Well, finish. 1 MS. O'DELL: Object to the form. 2 2 A She also generated -- she -- we went back A So that -- that paragraph is continued on 3 and forth. She had a bunch of questions. 3 page 34, the next page at the top which says, The primary analysis of this excluded Terry, but the 4 But she also generated summary estimates. 4 5 And there were a bunch of categories that I asked 5 results were nearly identical if Terry was included. 6 her to do. Some of those summary estimates, to me, 6 Q (BY MR. ZELLERS) You could have included 7 7 seemed like they didn't totally make essence. Terry as part of Figure 2, and that would have been 8 So one analysis used seven studies and one 8 an 11th study; is that right? 9 used nine, but it had the same final odds ratio out 9 A Yes, that's correct. 10 10 to three digits. And it should have been the same Q Why did you not include Terry in your 11 result perhaps, but not out to three digits. 11 analysis and -- in Figure 2? 12 12 A Terry included, within its -- within her So I went through those and sort of said: 13 Look, can you redouble-check this to make sure that 13 assembled papers, other patients that are already 14 the weighting was correct? 14 included in Figure 2. 15 15 And including Terry would have listed --And in one or two cases she came back and 16 said: No, the weighting was not correct. 16 would have weighted some patients more than once. 17 So I rechecked every graph and every 17 Q Is there, to your knowledge, any 18 number that she generated. 18 duplication or overlap in the patients for the ten 19 Q Ultimately, you identified -- let me 19 studies that you list in Figure 2 on page 33 of your 20 withdraw that. 20 report? 21 21 You reviewed the studies; you did your A To the degree that I could eliminate 22 data abstraction; and you formulated your research 22 overlap, I did. 23 question or questions for the systematic review, 23 Q Is there overlap in some of the patients 24 24 correct? and some of the studies? 25 25 MS. O'DELL: Object to the form. A I would have to look at it again to remind

	Page 166		Page 168
1	myself if there is any overlap. I I don't	1	A I I would not the individual studies
2	believe there is.	2	are shown with the confidence interval around those
3	And any overlap, I made every effort to	3	point estimates.
4	get rid of. I would have to look at those papers a	4	One way to establish statistical
5	little bit more closely to remember if there was any	5	significance is is that statistically different
6	overlap.	6	within an individual study than one.
7	I I know there was a lot of overlap if	7	But I don't believe that only two of these
8	I included Terry, which is why that was an important	8	show statistical significance as a group of studies.
9	exclusion.	9	So if you're asking if two don't overlap one, then I
10	Q How did you identify these ten studies	10	would agree with you. If you're asking if these
11	that you list in Figure 2?	11	together show statistical
12	A So I I did not identify those studies.	12	Q (BY MR. ZELLERS) I'm going to ask you
13	That was what Dr. Hall used the data that I	13	MS. O'DELL: Excuse me. Sorry. Let her
14	provided to identify which studies had the the	14	finish. Sorry.
15	appropriate data to look at look at this.	15	Q (BY MR. ZELLERS) Did you finish?
16	Q How did Dr. Hall identify these ten	16	A I I'm trying to understand if you're
17	studies as being the ones to include in Figure 2?	17	asking me if the original studies here show or
18	A These were the studies that had data on	18	if just each line by itself.
19	daily tale powder powder products.	19	Q If we go line by line for these ten
20	Q You only used subsets of data from these	20	studies, only two of these ten studies demonstrate
21	ten studies those ten studies listed in	21	statistical significance; is that right?
22	Figure 2 to reach your conclusions, correct?	22	A Yes.
23	MS. O'DELL: Object to the form.	23	Q Yet you conclude by looking at all ten of
24	A I don't remember offhand if I used all of	24	the studies that there is statistical significance;
25	the data from these studies or subsets of data from	25	is that right?
	the data from these studies of subsets of data from		is that right:
	Page 167		Page 169
1	Page 167 these studies to reach my conclusion.	1	Page 169  A So the way you're asking the question
1 2		1 2	
	these studies to reach my conclusion.		A So the way you're asking the question
2	these studies to reach my conclusion.  There were only data from these ten	2	A So the way you're asking the question suggests that when you're combining studies in a
2	these studies to reach my conclusion.  There were only data from these ten studies included in this figure, but I'm not sure if	2	A So the way you're asking the question suggests that when you're combining studies in a systematic review, you care about the initial sample
2 3 4	these studies to reach my conclusion.  There were only data from these ten studies included in this figure, but I'm not sure if I used all of the data from those studies or	2 3 4	A So the way you're asking the question suggests that when you're combining studies in a systematic review, you care about the initial sample size of the question.
2 3 4 5	these studies to reach my conclusion.  There were only data from these ten studies included in this figure, but I'm not sure if I used all of the data from those studies or subsets, as you asked.	2 3 4 5	A So the way you're asking the question suggests that when you're combining studies in a systematic review, you care about the initial sample size of the question.  And so I conclude taken as a group of
2 3 4 5 6	these studies to reach my conclusion.  There were only data from these ten studies included in this figure, but I'm not sure if I used all of the data from those studies or subsets, as you asked.  Q (BY MR. ZELLERS) Would you agree that only	2 3 4 5 6	A So the way you're asking the question suggests that when you're combining studies in a systematic review, you care about the initial sample size of the question.  And so I conclude taken as a group of studies, the individual sample size or power of the
2 3 4 5 6 7	these studies to reach my conclusion.  There were only data from these ten studies included in this figure, but I'm not sure if I used all of the data from those studies or subsets, as you asked.  Q (BY MR. ZELLERS) Would you agree that only two of the ten studies in Figure 2 demonstrates	2 3 4 5 6 7	A So the way you're asking the question suggests that when you're combining studies in a systematic review, you care about the initial sample size of the question.  And so I conclude taken as a group of studies, the individual sample size or power of the individual associations is not sufficient to come up
2 3 4 5 6 7 8	these studies to reach my conclusion.  There were only data from these ten studies included in this figure, but I'm not sure if I used all of the data from those studies or subsets, as you asked.  Q (BY MR. ZELLERS) Would you agree that only two of the ten studies in Figure 2 demonstrates statistical significance?	2 3 4 5 6 7 8	A So the way you're asking the question suggests that when you're combining studies in a systematic review, you care about the initial sample size of the question.  And so I conclude taken as a group of studies, the individual sample size or power of the individual associations is not sufficient to come up with a narrow confidence interval.
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#### Page 170 Page 172 Q How did you make that calculation? How 1 1 interval around the odds ratio for each of these ten 2 did you calculate statistical significance from 2 studies? 3 3 those ten studies? MS. O'DELL: Object to the form. 4 MS. O'DELL: Object to the form. I 4 A So most of the studies, if not all of 5 believe she has already answered that, but you may 5 those, would have had published adjusted odds ratios 6 describe that again, Doctor. 6 in the original calculations. 7 A So the software that was used, is that 7 I believe one of the studies, the Gertig, 8 8 was an adjusted risk ratio, not an odds ratio, which what you are asking? 9 9 Q (BY MR. ZELLERS) I want to know how it is had a bit of back-and-forth discussion with the 10 10 that you calculated that these ten studies -- eight biostatistician. 11 11 of which did not demonstrate statistical And we decided they were essentially 12 significance when they were looked at together --12 equivalent. But the other ones would have been 13 13 extracted from the initial studies. were statistically significant? 14 14 A So I need to provide you with just a Q The confidence intervals for the ten 15 little background on the field of systematic reviews 15 studies on -- in Figure 2, page 33 of your report came from the studies themselves? 16 16 to answer that question. 17 17 Q All right. Well, try to be as direct as 18 you can, because I have only got a certain amount of 18 Q Were there any other selection criteria 19 19 that you used to identify these ten studies, other 20 Are you able to answer the question? 20 than what you have testified to? 21 A Absolutely. 21 A No. 2.2 Q Then please tell us how you calculated 2.2 Q Of the 43 or so studies that had primary 23 statistical significance for the RE model. 23 data, are these the only studies, other than Terry, 24 A So we looked at adjusted odds ratios of 24 that discuss regular use of talc? 25 25 each of the studies. We weighted them based on the A So I am just looking for where my fullest Page 171 Page 173 1 standard errors for each of them and calculated sort 1 of studies is in the report. I think it's pages 23 2 2 of an overlying association when basically the size and 24. 3 of each study, the point estimate of each study were 3 The fullest of studies that I looked at 4 taken into consideration. 4 included -- I think there were seven systematic 5 So taking them altogether, it allows the 5 reviews. So the systematic reviews did not 6 summary estimate, if you look, to have a much 6 contribute to the -- they were not eligible for --7 narrower confidence interval than the individual 7 for -- for my own review because they didn't have 8 study. 8 primary data, and they would overlap. 9 So you use the weight of all the studies 9 And the same thing with -- well, the 10 to combine the -- to give you a summary estimate. 10 Terry, we know about. So it was only the other 11 O Where can I see the weighting and the 11 studies that were eligible. 12 calculation that you did to come up with the 12 Q These ten studies that you list in 13 statistically significant number? 13 Figure 2 are the only studies that you reviewed that 14 A So the -- the name of the software we used 14 discuss regular use of talc, and that's why you 15 was in Metafor package in R. "R" is a program. 15 included them here; is that right? 16 The data set that I provided to you of the 16 MS. O'DELL: Object to the form. 17 extracted database, if you put those numbers -- if 17 A No, that's -- that's not what I said. 18 anyone puts those numbers in the Metafor package in 18 The systematic reviews I read and had 19 R and instructs the software that you want to apply 19 data, many of them, on regular use of talc. 20 a -- linear mixed models to study that data set, you 20 But those were not included in my 21 will get the exact same estimate that I got. 21 systematic review because that would have had 22 Q And I will be able to see that from the 22 overlap of -- of -- of patients. So they were not 23 documents that you have produced; is that right? 23 included because it overlapped patients. 24 A Absolutely. 24 Q (BY MR. ZELLERS) Which studies were those 25 Q How did you calculate the confidence 25 seven?

	Page 174		Page 176
1	A So they're listed on page 23 as systematic	1	Q (BY MR. ZELLERS) If you turn to
2	reviews. So Penninkilampi and Berge and the IARC	2	MS. O'DELL: I'll take that.
3	and Langseth and Huncharek and Gross and Harlow.	3	Q (BY MR. ZELLERS) turn to Table 2 on
4	The reason Terry was pulled out from that	4	page 353, the bottom table at the bottom of the
5	to possibly include was because Terry provided new	5	table.
6	data points that weren't included in the component	6	A Yes.
7	studies, and so I wanted to make sure not to miss	7	Q Do you see data with respect to "frequency
8	those patients.	8	of use per month"?
9	But these other systematic reviews were	9	A Yes.
10	all covered in the other primary studies that I	10	Q That's the type of study and the type of
11	included.	11	information that you did include in your systematic
12	Q Why did you not include the Cramer study,	12	review; is that right?
13	1999?	13	A Yes.
14	A Cramer was one of the authors that had a	14	Q Is it fair to say that as you sit here
15	lot of patients that kept appearing in subsequent	15	today, you just don't remember why you did not
16	publications. So he published the same patients	16	include Cramer 1999?
17	more than once, so	17	MS. O'DELL: Object to the form.
18	Q What analysis did you do to determine that	18	A In looking at this, you have convinced me
19	there was overlap between any of the patients	19	it's not because he doesn't have frequency of use,
20	reported on by Cramer in 1999 and any of the ten	20	because there is frequency of use in here. I do not
21	studies that you did choose to include?	21	know why it didn't make it into the final database.
22	A I went through I think there's a	22	But I'm looking at my paper from Cramer
23	separate page in my data fields that's just	23	from 2016, "The Association Between Talc Use and
24	attributed to the Cramer studies and wrote down	24	Ovarian Cancer, a Retrospective Case-control Study."
25	what years of enrollment the patients were.	25	He describes this is on page 334 of
		_	
	Page 175		Page 177
1	Page 175  And to the best I could, I identified the	1	Page 177 that other article that data came from three
1 2	And to the best I could, I identified the	1 2	that other article that data came from three
	And to the best I could, I identified the cohorts and then pulled them out to only identify		that other article that data came from three enrollment phases.
2	And to the best I could, I identified the	2	that other article that data came from three enrollment phases.  And my notes on the side say "minus Cramer
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	Page 178		Page 180
-	Page 178		
1	Q Why did it not make it into the final	1	Q the difference in result?
2	graph or group of ten?	2	A It it had no impact on the overall
3	A So I don't let me just say I don't	3	Q Was
4	remember why Rosenblatt was not included.	4 5	A results.
5	I specifically asked the biostatistician	6	<ul><li>Q it exactly the same?</li><li>A It was within a decimal fraction of a</li></ul>
6	to do the analysis with and without Rosenblatt, and	7	percent the same.
7	I believe the reason was I believe is that the	8	Q Can you tell us what the result was with
8	quality of Rosenblatt seems very poor, and I can't	9	Rosenblatt included?
9	remember why.	10	A It was the same with and without
10	But I asked her to do the analysis with	11	Rosenblatt included
11	and without Rosenblatt. I asked her to do, I think,	12	Q Is
12	four different analyses with and without Terry, with	13	A within a hundredth of a percent.
13	and without Rosenblatt.	14	Q Did you produce that calculation for us?
14	My recollection is it had no impact. But	15	A Within the files that I shared, it is
15	I do not remember why I asked her with the quality	16	included in the forest plot tables that Dr. Hall
16	issue I would have to go back to my database to	17	generated.
17	remember why I asked her to do it both ways.	18	Q Go to Figure 2, if you will, in your
18	Q Rosenblatt contained information over	19	report, page 33. Do you have that?
19	or strike that including a lifetime number of	20	MS. O'DELL: If you need to see the the
20	applications and included information on more than	21	data that you produced, Doctor, the Excel
21	10,000 lifetime applications, correct?	22	spreadsheets
22	A Yes.	23	A Oh, that would be great.
23	Q All right.	24	MS. O'DELL: okay. And I I'm going
24	A Well, I I'm I'm looking for it.	25	to hand you my computer. But it's
25	Yeah, I'm guessing that		
	Daga 170		
	Page 179		Page 181
1	Q Here is a	1	Page 181 A CanI
1 2		1 2	
	Q Here is a		A Can I
2	Q Here is a MS. O'DELL: Don't don't. Excuse me	2	A Can I MS. O'DELL: it's the data
2	Q Here is a MS. O'DELL: Don't don't. Excuse me yeah, don't guess. Just if you know.	2	A Can I MS. O'DELL: it's the data A this is what I shared with you.
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	Page 182		Page 184
1	calculation that you were just asking her about.	1	(Exhibit 24 was marked for identification
2	Q (BY MR. ZELLERS) I have finished those	2	and is attached to the transcript.)
3	questions. She has answered those questions. I'm	3	Q (BY MR. ZELLERS) Is this another e-mail
4	asking a new question. Or I would like to.	4	exchange between you and Dr. Hall? Is that yes?
5	A Okay. Thank you.	5	A I'm so sorry. I didn't hear your
6	MS. O'DELL: You're welcome. If you need	6	question.
7	to see any of the tables	7	Q Sure. My question is: Is this an e-mail
8	A Okay.	8	exchange between you and Dr. Hall?
9	MS. O'DELL: Doctor, I have all that	9	A Yes.
10	has been produced right here.	10	Q If you look at the e-mail at the bottom of
11	A Fantastic.	11	the second-to-last page, Dr. Hall writes you on
12	Q (BY MR. ZELLERS) Okay.	12	Monday, September 24, 2018, at 11:42, and tells you
13	Dr. Smith-Bindman Bindman, looking at Figure 2,	13	that she is encountering obstacles; is that right?
14	looking at the confidence intervals that you have	14	And I'm sorry. It's the third-to-last
15	listed for each of those ten studies, are you aware	15	page is where that e-mail starts.
16	that not one of those confidence intervals for any	16	A I see what you are saying. She has a note
17	of the ten studies are actually listed in or come	17	at the bottom of the page.
18	from the study publications?	18	Q She tells you she's encountering
19	MS. O'DELL: Object to the form.	19	obstacles?
20	A I am not aware of that.	20	A Yes.
21	Q (BY MR. ZELLERS) In fact, did you	21	Q She asks you a number of questions?
22	recalculate the confidence interval for each of	22	A Yes.
23	these studies?	23	Q No. 1 is that there's missing proportion
24	A The confidence intervals and the point	24	information and the data is missing.
25	estimate are adjusted confidence intervals and odds	25	If you go down to 1B, she says, Where the
	Page 183		Page 185
1		1	
1 2	ratios, so you you can't recalculate them from	1 2	Page 185 raw numbers are not available, I would do my best to estimate unless you have access to them and can send
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	Page 186		Page 188
1	her first question where she advised you that there	1	MS. O'DELL: Object to the form.
2	was missing proportion information and her proposal	2	A We discussed this at length, and she ended
3	that "where the raw numbers are not available, I'll	3	up going with Option 3, using relative risk as an
4	do my best to estimate, unless you have access to	4	underestimation of the odds ratios, but
5	them and can send them to me"?	5	approximately equal because of the rareness of the
6	MS. O'DELL: Object to the form; asked and	6	disease.
7	answered.	7	Q (BY MR. ZELLERS) So she adopted, at your
8	A I did not have, other than going to the	8	suggestion, the option that she states,
9	papers, any additional information to supplement.	9	understanding that relative risk may considerably
10	Q (BY MR. ZELLERS) Okay. No. 2	10	underestimate odds ratios; is that right?
11	MS. O'DELL: Are you finished, Doctor?	11	A Yes, it is.
12	A Say it again.	12	Q And you advised her for No. 3, how did
13	MS. O'DELL: Are you finished?	13	you advise her when she told you that she was unable
14	A No.	14	to calculate the true or truly estimate for any
15	MS. O'DELL: Okay.	15	talc use and suggested that you consider pooling the
16	A And so, again, she's not asking me about	16	results from rarely, monthly, weekly, and daily?
17	the abstraction. She's asking me if a study	17	MS. O'DELL: Object to the form. Are you
18	reported, for example, that there were a hundred	18	talking about No. 3? It's not clear.
19	patients with serous carcinoma or if there were	19	A So the option that we did for that choice
20	150 patients altogether, it reported the odds ratios	20	is actually neither Option 1 or Option 2.
21	for serous carcinoma, but may not have specified in	21	The focus of the review that she completed
22	the table how many cases of serous carcinoma there	22	was, in fact, on daily talc use. It's not different
23	were, could she estimate that proportion when we had	23	than she suggested.
24	the point estimate we needed.	24	But she used the numbers that were
25	We had the odds ratio we needed, but she	25	incorrectly categorized as any talc use instead to
	Page 187		Page 189
1		1	
1 2	needed to know how many serous cancers there were to	1 2	represent daily talc use, so that that data point
	needed to know how many serous cancers there were to weight it.		represent daily talc use, so that that data point was moved for the daily talc use category.
2	needed to know how many serous cancers there were to weight it.  And I would have told her, when the raw	2	represent daily talc use, so that that data point was moved for the daily talc use category.  Q Let me show you the Chang paper. This is
2	needed to know how many serous cancers there were to weight it.  And I would have told her, when the raw numbers for those missing proportions were not	2 3	represent daily talc use, so that that data point was moved for the daily talc use category.
2 3 4	needed to know how many serous cancers there were to weight it.  And I would have told her, when the raw numbers for those missing proportions were not available, to do her best to estimate those.	2 3 4	represent daily talc use, so that that data point was moved for the daily talc use category.  Q Let me show you the Chang paper. This is one of the papers that you cite both in Figure 2 and
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1	interval of .51 to 1.39?	1	notes here, but I believe what I did for Chang is
2	A Hum? So the point estimate that I	2	that Chang's numbers are included in the Terry
3	think I need to look at the paper a little more	3	report where she used the data that were published,
4	closely.	4	as well as the supplemental data that were provided
5	So the number I see in this paper is	5	by Chang.
6	instead of being .51 to 1.39 is .61 to 1.49 is about	6	And within the supplemental data, Terry
7	ten points higher.	7	did a stratified analysis that provided additional
8	Q All right. You don't know where, for	8	information on serous cancer that was not actually
9	Figure 2, the confidence interval of .51 to 1.39	9	in the original Chang report.
10	came from, correct?	10	And those are the data that made it into
11	A I I do not. It's so close to the	11	what is under Chang in this systematic review.
12	publication the publication that I'm not sure if	12	Q (BY MR. ZELLERS) Okay.
13	it reflects a data abstraction error or if it was	13	A So they're data from Chang's work and
14	I think that's probably what it what it does, but	14	following Chang's methods. They happen not to be
15	I'm not sure.	15	published in Chang's original report, but rather
16	Q The Chang paper involved 450 patients with	16	included in the Terry report from from 2013.
17	borderline and invasive ovarian carcinoma; is that	17	And Terry the paper that I am talking
18	right?	18	about for Terry is genital powder use and risk of
19	A Say it one more time for me.	19	ovarian cancer, a pooled analysis of 8,500 cases and
20	Q Sure. The Chang paper	20	ninety-eight hundred fifty-nine controls.
21	A Yeah.	21	And then within that describes within the
22	Q Exhibit 25, involved a total of	22	methods, getting extra data for studies describing
23	450 patients with borderline and invasive ovarian	23	the regular use and then breaking down the results
24	carcinoma; is that right?	24	into whether or not it was invasive borderline,
25	A Yes.	25	invasive serous, and so forth
	Page 191		Page 193 I
1		1	Page 193
1 2	Q You used or Dr. Hall used, in your	1 2	Q So-
2	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because	2	Q So A so that's where those numbers came
2	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than	2 3	Q So A so that's where those numbers came from.
2	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?	2 3 4	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry
2 3 4	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to	2 3	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases
2 3 4 5	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I	2 3 4 5	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry
2 3 4 5 6	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were	2 3 4 5 6	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of
2 3 4 5 6 7	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I	2 3 4 5 6 7	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer,
2 3 4 5 6 7 8	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.	2 3 4 5 6 7 8	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?
2 3 4 5 6 7 8 9	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the	2 3 4 5 6 7 8	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.
2 3 4 5 6 7 8 9	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive	2 3 4 5 6 7 8 9	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form. A I believe the I believe the number of
2 3 4 5 6 7 8 9 10	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?	2 3 4 5 6 7 8 9 10	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form. A I believe the I believe the number of cases is specified in the Terry paper that I would
2 3 4 5 6 7 8 9 10 11	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your	2 3 4 5 6 7 8 9 10 11 12 13 14	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form. A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.
2 3 4 5 6 7 8 9 10 11 12	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets	2 3 4 5 6 7 8 9 10 11 12 13 14	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form. A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number. Q (BY MR. ZELLERS) All right. Let me ask you a few questions. A Yes. Q In the Chang paper
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q So A so that's where those numbers came from. Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form. A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number. Q (BY MR. ZELLERS) All right. Let me ask you a few questions. A Yes. Q In the Chang paper A Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data summary, is that what	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask you a few questions.  A Yes.  Q In the Chang paper A Yes.  Q the authors do not define "regular use"
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data summary, is that what  A Yeah	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask you a few questions.  A Yes.  Q In the Chang paper A Yes.  Q the authors do not define "regular use" as daily, do they?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data summary, is that what  A Yeah  MS. O'DELL: you are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask you a few questions.  A Yes.  Q In the Chang paper A Yes.  Q the authors do not define "regular use" as daily, do they?  A What Chang says in the original
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data summary, is that what  A Yeah  MS. O'DELL: you are  A that should be it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask you a few questions.  A Yes.  Q In the Chang paper A Yes.  Q the authors do not define "regular use" as daily, do they?  A What Chang says in the original publication is questions about regular talc use and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data summary, is that what  A Yeah  MS. O'DELL: you are  A that should be it.  MS. O'DELL: Okay. This is both	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask you a few questions.  A Yes.  Q In the Chang paper A Yes.  Q the authors do not define "regular use" as daily, do they?  A What Chang says in the original publication is questions about regular talc use and type of talc use, as well as duration and frequency
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data summary, is that what  A Yeah  MS. O'DELL: you are  A that should be it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask you a few questions.  A Yes.  Q In the Chang paper A Yes.  Q the authors do not define "regular use" as daily, do they?  A What Chang says in the original publication is questions about regular talc use and type of talc use, as well as duration and frequency could be derived or included; dusting or powdering
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data summary, is that what  A Yeah  MS. O'DELL: you are  A that should be it.  MS. O'DELL: Okay. This is both  both both of the spreadsheets are there, so just	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask you a few questions.  A Yes.  Q In the Chang paper A Yes.  Q the authors do not define "regular use" as daily, do they?  A What Chang says in the original publication is questions about regular talc use and type of talc use, as well as duration and frequency could be derived or included; dusting or powdering behavior considered improved regular application of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q You used or Dr. Hall used, in your analysis, only 41 of those 450 patients because those are the only ones that had greater than 25 times of use per month, correct?  A So I would need to look at my datasheet to know how many made it into the analysis, but I believe you're correct, that there were approximately 10 percent that were frequent users.  Q How did you determine, just looking at the Chang paper, how many of those 41 had invasive serous ovarian cancer?  MS. O'DELL: If you need to look at your datasheets  A Please.  MS. O'DELL: Which  A That would be great.  MS. O'DELL: which data tell data summary, is that what  A Yeah  MS. O'DELL: you are  A that should be it.  MS. O'DELL: Okay. This is both	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q So A so that's where those numbers came from.  Q You believe that if I looked at the Terry paper, I would be able to tell of these 41 cases that have greater than 25 uses per month, which of those cases involved invasive serous ovarian cancer, correct?  MS. O'DELL: Object to the form.  A I believe the I believe the number of cases is specified in the Terry paper that I would have to look at to find that that number.  Q (BY MR. ZELLERS) All right. Let me ask you a few questions.  A Yes.  Q In the Chang paper A Yes.  Q the authors do not define "regular use" as daily, do they?  A What Chang says in the original publication is questions about regular talc use and type of talc use, as well as duration and frequency could be derived or included; dusting or powdering

	Page 194		Page 196
1	dusting.	1	of invasive besides just serous.
2	And then that was categorized, I believe	2	Q Do you know that?
3	by Terry, as regular use when she got supplemental	3	A I I don't think they specify what's
4	data.	4	included in that. I have to add up the total to see
5	Q Okay. In the Chang paper, the authors do	5	if they are overlapping or not overlapping.
6	not define "regular use" as daily use, correct?	6	Could you add could you add that for
7	MS. O'DELL: Object to the form; asked and	7	me? Actually, the total should be they're
8	answered.	8	overlapping. 360, 460. Yeah, they're overlapping.
9	A The Chang paper explicitly says "regular	9	Yeah.
10	use." In the original publication, they don't	10	Q What do you mean, "they're overlapping"?
11	define it.	11	A Invasive and borderline should add up to
12	Q (BY MR. ZELLERS) They do not include	12	the total.
13	information in the Chang paper about how many times	13	And then serous mucin mucinous and
14	per week women used talcum powder, correct?	14	endometrioid should add up to the total, except to
15	MS. O'DELL: Object to the form.	15	the degree that they are missing information.
16	A In in Table 2 of Chang, they define it	16	Q Looking at the questions that Dr. Hall
17	as less than ten, ten to 25, or greater than 25	17	asked you
18	times per week.	18	A Yes.
19	Q (BY MR. ZELLERS) Where do you see that?	19	Q in Exhibit 24, you would agree that
20	A In Chang?	20	there were number of assumptions that you and she
21	Q Yes. I'm looking at the same table, and I	21	made in order to complete your systematic review; is
22	think it's per month.	22	that right?
23	A Per month.	23	A Absolutely.
24	Q Okay. And that's the only data that's	24	Q Is there anywhere that you have written
25	provided with respect to use is the number of	25	down, you know, what the assumptions were that you
	Page 195		Page 197
1	monthly applications, correct?	1	and Dr. Hall arrived at, at least in part in
2	A Yes.	2	response to her questions?
3	Q The authors of Chang did not arrive at a	3	A So for some of the issues, it took me
4	specific odds ratio for serous invasive cancer based	4	quite a bit of remembering to remember that we used
5	on frequency of use, correct?	5	some of the extracted data from more than one
6	A The Chang data was used by Terry to	6	source.
7	calculate frequency of use for serous and invasive	7	We have notes in our data form of what the
8	by supplementing the original data that they had	8	source of the data was, so it would say in some of
9	from additional data from Chang as a participant in	9	the data I said under Chang, it would say "in a
	1 0010	1 10	1 f T "
10	the OCAC consortium.	10	column from Terry."
11	So additional data from that study was	11	Q My question
11 12	So additional data from that study was shared with Terry, which is what we used in our	11 12	Q My question A So that that so to answer the
11 12 13	So additional data from that study was shared with Terry, which is what we used in our analysis.	11 12 13	Q My question A So that that so to answer the assumption of where the data came from, it's in my
11 12 13 14	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they	11 12 13 14	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember
11 12 13 14 15	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they describe a histologic type of invasive; is that	11 12 13 14 15	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember that we pulled data.
11 12 13 14 15	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they describe a histologic type of invasive; is that right, in Table 3, page 2399?	11 12 13 14 15	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember
11 12 13 14 15 16	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they describe a histologic type of invasive; is that right, in Table 3, page 2399?  A Yes.	11 12 13 14 15 16 17	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember that we pulled data.  Q My my question is a little different I
11 12 13 14 15 16 17	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they describe a histologic type of invasive; is that right, in Table 3, page 2399?  A Yes.  Q They also describe serous; is that right?	11 12 13 14 15 16 17 18	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember that we pulled data. Q My my question is a little different I A Okay.
11 12 13 14 15 16 17 18	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they describe a histologic type of invasive; is that right, in Table 3, page 2399?  A Yes.  Q They also describe serous; is that right?  A Yes.	11 12 13 14 15 16 17 18	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember that we pulled data. Q My my question is a little different I A Okay. Q think. In terms of all of the
11 12 13 14 15 16 17 18 19 20	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they describe a histologic type of invasive; is that right, in Table 3, page 2399?  A Yes. Q They also describe serous; is that right? A Yes. Q In the Chang data, what's the difference	11 12 13 14 15 16 17 18 19 20	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember that we pulled data. Q My my question is a little different I A Okay. Q think. In terms of all of the questions that Dr. Hall asked you and all of the
11 12 13 14 15 16 17 18 19 20 21	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they describe a histologic type of invasive; is that right, in Table 3, page 2399?  A Yes. Q They also describe serous; is that right? A Yes. Q In the Chang data, what's the difference between invasive and serous?	11 12 13 14 15 16 17 18 19 20 21	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember that we pulled data. Q My my question is a little different I A Okay. Q think. In terms of all of the questions that Dr. Hall asked you and all of the assumptions that would need to be made so that
11 12 13 14 15 16 17 18 19 20 21 22	So additional data from that study was shared with Terry, which is what we used in our analysis.  Q If we look at Chang in Table 3, they describe a histologic type of invasive; is that right, in Table 3, page 2399?  A Yes. Q They also describe serous; is that right? A Yes. Q In the Chang data, what's the difference between invasive and serous? A I'm I'm sorry. In lot in Table 3	11 12 13 14 15 16 17 18 19 20 21 22	Q My question A So that that so to answer the assumption of where the data came from, it's in my data spreadsheet. I just I just didn't remember that we pulled data. Q My my question is a little different I A Okay. Q think. In terms of all of the questions that Dr. Hall asked you and all of the assumptions that would need to be made so that estimates could be arrived at, do you have either
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	Page 198		Page 200
1	MS. O'DELL: Objection, asked and	1	confidence interval for the let's say the Chang
2	answered. Respond.	2	data that you list in Figure 3?
3	A I am under the impression that they're	3	A I'm going to have to look into the exact
4	documented within our e-mail exchanges, but I do not	4	calculation of the confidence interval.
5	have a protocol with each of these decisions that	5	The question that you asked me about Chang
6	are laid out.	6	for the first table is very close to the one that's
7	Q (BY MR. ZELLERS) I my best source would	7	published so close that I'm not sure how it
8	be the e-mail exchanges that you had with Dr. Hall,	8	would be different.
9	correct?	9	I don't I thought these were abstracted
10	MS. O'DELL: Object to the form.	10	from the paper. And I would have to go back and
11	Q (BY MR. ZELLERS) Is that right?	11	talk to Dr. Hall about how they were calculated.
12	A Yes.	12	I thought they were calculated, but I I
13	Q Okay. Once you did your ten studies that	13	may be I may be wrong. They may have been in
14	are in Figure 2 and those were just the	14	some way reestimated.
15	the studies that you chose to include, as you have	15	So again, similar with this, these numbers
16	told us, showing odds of ovarian cancer associated	16	are close to the ones that are in this paper, but
17	with regular use of talcum powder you further	17	are slightly off, and I'm not sure why.
18	refined the studies or narrowed down the studies to	18	So I would have to go back to the data
19	four which you state plot or who the odds of ovarian	19	that I abstracted and then the data that she sent me
20	cancer associated with regular use of talcum powder	20	back for the final tables to see why they were
21	and invasive serous cancer; is that right?	21	different.
22	MS. O'DELL: Object to the form.	22	Q Okay.
23	A With the caveat that when when I laid	23	A But they're they're different to a
24	out our stratified analysis on page 32, it says, My	24	such a slight degree that and I'm not really sure
25	review focused on invasive serous cancer where	25	where that difference came from.
	Page 199		Page 201
1	possible, but also included all invasive cancer.	1	Q Were there any other analyses that you or
2	Q (BY MR. ZELLERS) What did you do to get	2	Dr. Hall con conducted that are not included in
3	from the ten studies that you list in Figure 2 to	3	your report?
4	the four studies that you list in Figure 3?	4	A I had asked Dr. Hall, I believe, to look
5	A Figure 2 is ovarian cancer with regular	5	at at several analyses that are all in the data
6	use, and Figure 3 is invasive serous cancer.	6	that I shared with you.
7	If there was not invasive serous but there	7	The sensitivity analysis for Terry and the
8	was just invasive, they also might be in this. I	8	sensitivity analysis for the Rosen [sic] study are
9	would have to review these four studies to know if	9	in the data I sent you, but are not summarized in
10	it was invasive or invasive serous.	10	the report.
11	Q Do you know, as you sit here, what you did	11	MS. O'DELL: And by "the data," you're
12	to go from the ten studies in Figure 2 to the four	12	talking about the spreadsheets
13	studies in Figure 3?	13	A Yes.
14	MS. O'DELL: Object to the form.	14	MS. O'DELL: that you provided?
15	A In the data set that I sent to you and	15	A Yes. There there are more analyses
16	sent to Dr. Hall, they would there were different	16	that were done that you haven't seen. But they
17	sets of complete data. And the Figure 3 had data	17	they were analysis for four analyses.
18	for invasive or invasive serous cancer; whereas,	18	I just see two here. So I there were
19	Figure 2 had included invasive and noninvasive.	19	two others. I think it was including Terry and
20	So it would just be where there were data	20	including Rosenblatt, I think, are the other two.
21	available in the data worksheet. I I was not involved in making the selection to go from one to	21 22	But you have all of the there were no
22	involved in making the selection to go from one to	1 44	other analyses except those four that she completed.
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23	the other. It was just where there were data that	23	MS. O'DELL: Excuse me, Mike. I'm sorry.
23 24 25			

	Page 202		Page 204
1	MR. ZELLERS: All right. Let's stop.	1	Q The FDA, in 2014, reviewed the
2	We're stopping for the day; is that right?	2	epidemiology and etiology findings relating to
3	MS. O'DELL: Let's let me speak with	3	ovarian cancer and the genital application of talc;
4	Dr. Smith-Bindman on the break and then I'll let you	4	is that right?
5	know.	5	MS. O'DELL: Object to the form.
6	MR. ZELLERS: All right.	6	A Yes.
7	THE VIDEOGRAPHER: We're off the record at	7	Q (BY MR. ZELLERS) The FDA noted that
8	2:59 p.m.	8	selection bias and/or uncontrolled confounding
9	(A break was taken from 2:59 p.m. to	9	result in spurious positive associations between
10	3:11 p.m.)	10	talc use and ovarian cancer; is that right?
11	THE VIDEOGRAPHER: We are back on the	11	MS. O'DELL: Object to the form.
12	record. This marks the beginning of Disc No. 4 in	12	A The FDA concluded that some of the studies
13	the deposition of Dr. Rebecca Smith-Bindman. The	13	had biases. Yes, they did.
14	time is 3:11 p.m.	14	Q (BY MR. ZELLERS) And if we look at No. 2,
15	Q (BY MR. ZELLERS) Dr. Smith-Bindman, what	15	the FDA states, No single study has considered all
16	methodology, if anything different, did you use to	16	the factors that potentially contribute to ovarian
17	arrive at your opinion that there was a causal	17	cancer, including selection biased and/or
18	association between genital talcum powder use and	18	uncontrolled confounding that result in spurious
19	ovarian cancer?	19	positive associations between talc use and ovarian
20	A I used the Bradford Hill criteria.	20	cancer risk.
21	Q Are you familiar with the Bradford Hill	21	Is that right?
22	criteria?	22	A That is what the FDA concluded.
23	A I am. Yes, I am.	23	Q The FDA also noted that there was a lack
24	Q You're familiar that over time the FDA has	24	of consistency in the study results; is that right?
25	gone through and done various analyses with respect	25	A That is what the FDA concluded.
	Page 203		Page 205
1	Page 203 to perineal talcum powder use and any association	1	Page 205  Q And specifically the FDA concludes,
1 2		1 2	
	to perineal talcum powder use and any association		Q And specifically the FDA concludes,
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	Daga 206		Dogo 200
_	Page 206		Page 208
1	through through 2010, each published a few years	1	prove that something is safe is is next to
2	after that.	2	impossible
3	Q IARC has gone through and addressed the	3	Q (BY MR. ZELLERS) Right.
4	Bradford Hill considerations with respect to the	4	A and so that's why that category is
5	classification of genital tale; is that right?	5	not is used. Category 3 and four can, for the
6	MS. O'DELL: Object to the form.	6	sake of discussion, be considered the same.
7	A Can you remind me which analysis you're	7	Q And that's why there's no Group 5, not
8	referring to?	8	carcinogenic; is that right?
9	Q (BY MR. ZELLERS) Well, let's start with	9	A Yes.
10	the classifications. Take a look at Exhibit 27, if	10	Q Correct? Now, with genital talc, IARC has
11	you will.	11	determined that it is appropriately placed in the
12	(Exhibit 27 was marked for identification	12	"to be" category; is that right?
13	and is attached to the transcript.)	13	MS. O'DELL: Object to the form.
14	Q (BY MR. ZELLERS) Are these the IARC	14	A I I would take a slight pause to that
15	classifications for its determination	15	consideration. I think that in the first review
16	MS. O'DELL: Thank you.	16	when they have looked at platy talc, they consider
17	Q (BY MR. ZELLERS) as to the	17	it a "to be" possibly carcinogenic to humans.
18	carcinogenicity carcinogenicity of different	18	Whereas, in the report looking at asbestos
19	agents?	19	and fibrous talc, which also counts in the same
20	A Yes.	20	category as asbestos, the that is in the category
21	Q And you're generally familiar with these	21	that's a Group 1 carcinogenic to humans.
22	classifications; is that right?	22	Q (BY MR. ZELLERS) IARC has determined that
23	A I am.	23	genital talc is a group to be possibly carcinogenic
24	Q Group 1, these are the agents that IARC	24	to humans; is that right?
25	has determined are carcinogenic to humans, correct?	25	MS. O'DELL: Object to the form.
	Page 207		Page 209
1	Page 207 A Yes.	1	
1 2	A Yes.	1 2	Page 209  Misstates her testimony.  A So in their initial review in their
	<ul><li>A Yes.</li><li>Q And that's the only category in which IARC</li></ul>		Misstates her testimony.  A So in their initial review in their
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A Yes. Q And that's the only category in which IARC finds sufficient evidence in humans; is that right? MS. O'DELL: Object to the form. A That's how they define that category. Q (BY MR. ZELLERS) IARC puts 82 agents in Group 2A probably carcinogenic to humans; is that right? A That is correct. Q So IARC has gone through and has evaluated many, many, many agents and has determined that there are over 200 agents in both the Group 1 category and also the Group 2A category, correct? A Yes. Q There's only one agent in Group 4, probably not carcinogenic to humans; is that right? MS. O'DELL: Object to the form. A Yes, that's correct. Q (BY MR. ZELLERS) So out of the over a thousand agents that IARC has reviewed, it's only placed one agent in Group 4 probably not carcinogenic; is that right? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Misstates her testimony.  A So in their initial review — in their earlier review, they concluded that genital talc is possibly carcinogenic to humans.  In the more recent 2012, they discuss that cosmetics are the primary sources of exposure to talc in the general population; that perineal application is the primary route and that fibrous talc, which is part of talc, is actually Group 1 carcinogenic.  Q (BY MR. ZELLERS) All right. Show me the IARC designation of genital talc as a Group 1 carcinogenic.  MS. O'DELL: Object to the form.  A Genital talc contains platy talc, as well as fibrous talc, as well as asbestiform contaminated talc, and they consider any fibrous talc to be a Group 1 carcinogen.  Q (BY MR. ZELLERS) Show me where the perineal application of genital talc has been determined by IARC to be a Group 1 carcinogen.  MS. O'DELL: Object to the form. Would you like to see the IARC?

l	Page 210		Page 212
1	you're the one who is testifying.	1	A So this is the monograph the
2	A I just don't have the document in front of	2	monograph the IARC monograph on the evaluation of
3	me. How would you like me to show it to you?	3	carcinogenic risks arsenic metals, fibrous and
4	Q I I would like you to show me where	4	dust, volume 100C. So
5	genital talc has been found by IARC to be a Group 1	5	Q I'm looking for perineal talc.
6	carcinogen.	6	A No. No. I know. I understand.
7	MS. O'DELL: Object to the form. So was	7	Q Okay.
8	that not excuse me, Doctor. Is that not	8	A I'm just telling you where I'm I'm
9	something you're going to put in front of her?	9	going to be pulling this from. And I'm looking at
10	Q (BY MR. ZELLERS) I I have my	10	the section under "Asbestos." And under the Pier
11	information. And my IARC review says that they have	11	the the section under "Asbestos, it talks, under
12	classified genital talc as a group to be possibly	12	1.C
13	carcinogenic to humans.	13	Q What page?
14	A Do you have the 2012	14	A 230. And I will read several sections
15	MS. O'DELL: Yes. Let me just get it for	15	of it. This section says, Talc particles are
16	you, Doctor. Give me a moment to see what number it	16	normally plate-like. These particles are viewed on
17	is in your references.	17	edge under the microscope.
18	Q (BY MR. ZELLERS) As your counsel is	18	THE COURT REPORTER: I have to have you
19	looking for that document, can we agree that the "to	19	slow down when you read.
20	be" designation with IARC is based on limited	20	A I'm so sorry. May appear to be fibers.
21	evidence in humans, which means IARC cannot rule out	21	Talc may also form true mineral fibers that are
22	chance, bias, or confounding with reasonable	22	asbestiform in habit.
23	confidence?	23	In some talc deposits, tremolite,
24	A In their original assessment of talc in	24	anthophyllite, and actinolite may occur. Talc
25	2010 where they classified it as to be, the "to be"	25	containing asbestiform fibers is a term that has
	<u> </u>		
	Page 211		Page 213
1	designation means that it's possibly carcinogenic,	1	been used inconsistently.
2	which is a very high bar for them to put them in	2	I'm I'm just seeing where the
3	that category, but could also be due to chance.	3	Q (BY MR. ZELLERS) That's okay. And I am
4	Q Okay. Also, in class "to be" as possibly	4	looking for the statement or the finding that
5	carcinogenic is ginkgo biloba; is that right?		
		5	genital talc cosmetic genital talc has been
6	A I I have no idea.	6	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.
7	Q Occupational carpentry and joinery; is	6 7	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section
7 8	Q Occupational carpentry and joinery; is that right?	6	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.
7 8 9	Q Occupational carpentry and joinery; is that right? A I I I have no idea.	6 7 8 9	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And
7 8 9 10	Q Occupational carpentry and joinery; is that right? A I I I have no idea. Q Pickled	6 7 8 9 10	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says,
7 8 9 10 11	Q Occupational carpentry and joinery; is that right? A I I I have no idea. Q Pickled A I	6 7 8 9 10 11	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says, Exposure of the general population: Consumer
7 8 9 10 11 12	Q Occupational carpentry and joinery; is that right? A I I I have no idea. Q Pickled A I Q vegetables?	6 7 8 9 10 11 12	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says, Exposure of the general population: Consumer products, cosmetics, pharmaceuticals are the primary
7 8 9 10 11 12 13	<ul> <li>Q Occupational carpentry and joinery; is that right?</li> <li>A I I I have no idea.</li> <li>Q Pickled</li> <li>A I</li> <li>Q vegetables?</li> <li>A I think pickled vegetables are pretty</li> </ul>	6 7 8 9 10 11 12 13	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says, Exposure of the general population: Consumer products, cosmetics, pharmaceuticals are the primary source of exposure to talc for the general
7 8 9 10 11 12 13	Q Occupational carpentry and joinery; is that right?  A I I I have no idea. Q Pickled A I Q vegetables? A I think pickled vegetables are pretty carcinogenic, but I I don't know what IARC thinks	6 7 8 9 10 11 12 13 14	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says, Exposure of the general population: Consumer products, cosmetics, pharmaceuticals are the primary source of exposure to talc for the general population. Inhalation and dermal contact through
7 8 9 10 11 12 13 14	Q Occupational carpentry and joinery; is that right?  A I - I - I have no idea.  Q Pickled  A I  Q vegetables?  A - I think pickled vegetables are pretty carcinogenic, but I I don't know what IARC thinks of them.	6 7 8 9 10 11 12 13 14 15	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says, Exposure of the general population: Consumer products, cosmetics, pharmaceuticals are the primary source of exposure to talc for the general population. Inhalation and dermal contact through perineal application are the primary routes of
7 8 9 10 11 12 13 14 15 16	Q Occupational carpentry and joinery; is that right?  A I - I - I have no idea.  Q Pickled  A I  Q vegetables?  A - I think pickled vegetables are pretty carcinogenic, but I I don't know what IARC thinks of them.  Q Do you believe that the standard for	6 7 8 9 10 11 12 13 14 15	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says, Exposure of the general population: Consumer products, cosmetics, pharmaceuticals are the primary source of exposure to talc for the general population. Inhalation and dermal contact through perineal application are the primary routes of exposure.
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q Occupational carpentry and joinery; is that right?  A I I I have no idea.  Q Pickled A I Q vegetables? A I think pickled vegetables are pretty carcinogenic, but I I don't know what IARC thinks of them.  Q Do you believe that the standard for prove proving causation in the scientific literature is the same as the one that applies in litigation?  A Yes, I do. Q Do you want to show me what your counsel has provided you? A Yes.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says, Exposure of the general population: Consumer products, cosmetics, pharmaceuticals are the primary source of exposure to talc for the general population. Inhalation and dermal contact through perineal application are the primary routes of exposure.  Q (BY MR. ZELLERS) Where does IARC conclude that perineal talc use, cosmetic talc, is a Group 1 carcinogen?  MS. O'DELL: Object to the form.  A As late as 1973, talc products contained detectable levels of chrysotile asbestos, tremolite, or anthophyllite role. And it's possible they
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Occupational carpentry and joinery; is that right?  A I I I have no idea.  Q Pickled A I Q vegetables? A I think pickled vegetables are pretty carcinogenic, but I I don't know what IARC thinks of them.  Q Do you believe that the standard for prove proving causation in the scientific literature is the same as the one that applies in litigation?  A Yes, I do. Q Do you want to show me what your counsel has provided you?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	genital talc cosmetic genital talc has been determined by IARC to be a Group 1 carcinogen.  A So I'm in the section MS. O'DELL: Object to the form.  A on the talc and asbestiform talc. And under 1.65, "Human Exposure," under "A," it says, Exposure of the general population: Consumer products, cosmetics, pharmaceuticals are the primary source of exposure to talc for the general population. Inhalation and dermal contact through perineal application are the primary routes of exposure.  Q (BY MR. ZELLERS) Where does IARC conclude that perineal talc use, cosmetic talc, is a Group 1 carcinogen?  MS. O'DELL: Object to the form.  A As late as 1973, talc products contained detectable levels of chrysotile asbestos, tremolite,

	Page 214		Page 216
1	It goes on to cite a whole lot of other	1	MS. O'DELL: As I'm not coaching the
2	places, Blount and so forth.	2	witness. So you can ask the questions, but you
3	And then in this same document they	3	can't raise your voice and and continue
4	categorize the asbestos and asbestiform fibers as	4	MR. ZELLERS: We have a video record.
5	being a Group 1 carcinogen.	5	MS. O'DELL: yes, we do.
6	Q (BY MR. ZELLERS) I'm going to ask you	6	MR. ZELLERS: No one here would say that
7	about asbestos and I'm going to ask you about	7	I'm raising my voice to the witness or behaving in
8	asbestiform fibers.	8	any way other than professionally.
9	What I want to know is: Where does IARC,	9	A I'm looking for the executive summary.
10	in the publication you're looking at, categorize	10	It's just taking a while in this very large document
11	cosmetic talc applied perineal to the perineal	11	to I see the problem.
12	region as a Group 1 carcinogen?	12	The copy of this document, I'm missing my
13	MS. O'DELL: Object to the form.	13	first few pages.
14	A They're telling us in this document that	14	Q (BY MR. ZELLERS) Okay.
15	asbestos and asbestiform talc are Group 1	15	A It starts at 30 31.
16	carcinogens.	16	THE COURT REPORTER: Did you say "few" or
17	They're telling us at the cite the	17	"first three"?
18	the most common exposure is consumer products. And	18	A I think I'm missing the first 30 pages.
19	<u>.</u>	19	Q (BY MR. ZELLERS) All right. Let
	inhalation and dermal contact with perineal	20	A So
20	application of talc powders are the primary routes		
21	of exposure.	21	Q me move on then.
22	Q (BY MR. ZELLERS) Where does IARC state	22	A okay.
23	that perineal use of cosmetic talc is a Group 1	23	Q Strength of association is a Bradford Hill
24	carcinogen?	24	criteria is that criterion; is that right?
25	MS. O'DELL: Object to the form.	25	A Yes, it is.
	Page 215		Page 217
-1	A Co IADC is talling us which commounds are	1	
1	A So IARC is telling us which compounds are	1	Q You one of the studies you reviewed was
2	Group 1 carcinogens.	1 2	Q You one of the studies you reviewed was Langseth; is that right?
	- · · · · · · · · · · · · · · · · · · ·	1	
2	Group 1 carcinogens.	2	Langseth; is that right?
2	Group 1 carcinogens.  Q (BY MR. ZELLERS) Where does it state that	2 3	Langseth; is that right?  A Yes, it is.
2 3 4	Group 1 carcinogens.  Q (BY MR. ZELLERS) Where does it state that the perineal use of cosmetic talc is a Group 1	2 3 4	Langseth; is that right?  A Yes, it is.  Q Langseth reviewed the overall pooled odds
2 3 4 5	Group 1 carcinogens.  Q (BY MR. ZELLERS) Where does it state that the perineal use of cosmetic talc is a Group 1 carcinogen?	2 3 4 5	Langseth; is that right?  A Yes, it is.  Q Langseth reviewed the overall pooled odds of cancer and found that there was an odds ratio of
2 3 4 5 6	Group 1 carcinogens.  Q (BY MR. ZELLERS) Where does it state that the perineal use of cosmetic talc is a Group 1 carcinogen?  MS. O'DELL: Object to the form. She has	2 3 4 5 6	Langseth; is that right?  A Yes, it is.  Q Langseth reviewed the overall pooled odds of cancer and found that there was an odds ratio of 1.35 across the studies; is that right?
2 3 4 5 6 7	Group 1 carcinogens.  Q (BY MR. ZELLERS) Where does it state that the perineal use of cosmetic talc is a Group 1 carcinogen?  MS. O'DELL: Object to the form. She has already stated that three times.	2 3 4 5 6 7	Langseth; is that right?  A Yes, it is. Q Langseth reviewed the overall pooled odds of cancer and found that there was an odds ratio of 1.35 across the studies; is that right?  A I'm going to look for it, but
2 3 4 5 6 7 8	Group 1 carcinogens.  Q (BY MR. ZELLERS) Where does it state that the perineal use of cosmetic talc is a Group 1 carcinogen?  MS. O'DELL: Object to the form. She has already stated that three times.  MR. ZELLERS: Well, I haven't heard it	2 3 4 5 6 7 8	Langseth; is that right?  A Yes, it is.  Q Langseth reviewed the overall pooled odds of cancer and found that there was an odds ratio of 1.35 across the studies; is that right?  A I'm going to look for it, but  Q Okay. I
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	Daga 210		Dago 220
,	Page 218	,	Page 220
1	A Oh, I apologize. I thought you were	1	a causal association between perineal use of talc
2	talking about the population-based studies.	2	and ovarian cancer?
3	No. You're absolutely right. 20 studies.	3	MS. O'DELL: Objection to form.
4	Q And of those 20 studies, only ten have	4	A The Langseth study is one review. And as
5	statistical significance; is that right?	5	I describe in my report, it seems like a well-done
6 7	A The original studies with the sample size	6 7	review, although it does not provide the kind of
8	they had, ten seemed to have difference than one.  Q Of the 20 studies the 20 case-control	8	details that I would hope it would provide given sort of the stature of some of the people who were
9	studies that were available and were studied by	9	involved in writing the report.
10	Langseth, only ten had statistically significant	10	That being said, this systematic review
11	results; is that right?	11	suggests that there's an association between
12	MS. O'DELL: Object to the form.	12	perineal tale exposure and ovarian cancer.
13	A Again, he is combining them together. But	13	Q You
14	in the original form when they were not combined,	14	A By itself, I don't think it provides
15	there are ten in their original form that had	15	enough data to have causality, but it provides good
16	statistical differences than one. They could	16	evidence that there's an association.
17	exclude one.	17	Q You understand that your interpretation of
18	Q (BY MR. ZELLERS) Half of the studies did	18	this study is different and broader than the
19	not have statistically significant results; is that	19	authors' interpretation of the data, correct?
20	right?	20	MS. O'DELL: Object to the form.
21	A The original studies had wide confidence	21	A One of the author's conclusion that I
22	intervals. And the original studies, before they	22	found quite compelling was in on page 358 in the
23	were combined, many of them overlapped one.	23	second paragraph in the second column
24	Q Is the answer yes to my question?	24	Q (BY MR. ZELLERS) Can you answer my
25	MS. O'DELL: She has answered your	25	question?
	Page 219		Page 221
1	Page 219 question.	1	Page 221  MS. O'DELL: She has answered your
1 2		1 2	
	question.		MS. O'DELL: She has answered your question. Don't MR. ZELLERS: Well, I don't think she is
2	question.  MR. ZELLERS: Well, I I don't know. I	2 3 4	MS. O'DELL: She has answered your question. Don't MR. ZELLERS: Well, I don't think she is answering my question.
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	Page 222		Page 224
1	talc-based body powder among controls ranged from 16	1	as nonresponsive.
2	to 52 percent.	2	My question was: Did I read that
3	The relative risk of ovarian cancer among	3	correctly?
4	body powder users were homogeneous across the set of	4	A You read that text correctly.
5	eight studies, each of which indicated a 30 to	5	Q All right. You conclude in your report
6	60 percent increase in risk.	6	with respect to strength of association that because
7	Among the other 12 case-control studies,	7	a very large number of ovarian cancers are caused by
8	most also reported relative risk of this magnitude	8	talcum powder and talcum powder provides no
9	or higher.	9	better no medical benefit, the Hill criterion of
10	So I think the authors of this concluded	10	strength of association is important and met.
11	that the better studies showed a very strong	11	Is that right?
12	association. And and I I'm not sure what	12	A I don't think that's exactly right. I
13	conclusion of the authors you're asking me to	13	I think all of the things I believe are in there
14	disagree with.	14	somewhere, but that's not quite what I would be
15	Q (BY MR. ZELLERS) Okay. Doctor, take a	15	Q I
16	look at "Proposal to Research Community" on the	16	A report.
17	right-hand side of page 359.	17	Q I'm just reading from page 38 of your
18	Do you see that?	18	report. Do you believe that because a very large
19	A I do.	19	number of ovarian cancers are caused by talcum
20	Q I'm going to read this, and you tell me if	20	powder and talcum powder provides no medical
21	I read it correctly.	21	benefit, the Hill criterion of strength of
22	"The current body of experimental and	22	association is important and is met?
23	epidemiological evidence is insufficient to	23	MS. O'DELL: Object to the form. I don't
24	establish a causal association between perineal use	24	think you read that
25	of tale and ovarian cancer risk.	25	A I
	Page 223		Page 225
1	Experimental research is needed to better	1	MS. O'DELL: the report correctly. But
2	characterize deposition, retention, and clearance of	2	if you were intending to read from her report
3	talc to evaluate the ovarian carcinogenicity of	3	verbatim, I don't believe that was correct.
4	a		verbatini, i don't beneve that was correct.
-	talc."	4	MR. ZELLERS: Counsel, please, just object
5	Did I read that correctly?	4 5	MR. ZELLERS: Counsel, please, just object to form, if you do have an objection.
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Association" section?  A It is included in the strength of	1	fine.
	_	
	2	MR. ZELLERS: Please don't interrupt
association to demonstrate how an odds ratio of	3	the
1.5, how many patients could be impacted on that.	4	MS. O'DELL: That's
So one of the questions is: Is there a	5	MR. ZELLERS: deposition.
strong association? And the second, which is really	6	MR. LAPINSKI: better. Thank you.
quite a different question, is: What's the	7	MR. ZELLERS: Ms. O'Dell is doing a
magnitude of that association?	8	fabulous job of making objections
And sometimes the magnitude of the	9	MR. LAPINSKI: Yes, she is.
association is mistakenly used as an approximation	10	MR. ZELLERS: for all of you.
of the strength of the association.	11	Q (BY MR. ZELLERS) Okay. Doctor. You were
And I was trying to disentangle the	12	trying
strength of the association. How truly do we know	13	MS. O'DELL: Excuse me. I don't still
they're associated with if it is associated, how	14	don't think she was finished.
big of an impact would it have?	15	MR. ZELLERS: Okay.
And so the purpose of Table 7 is not in	16	MS. O'DELL: So you may continue, Doctor.
any way to demonstrate the strengths of the	17	If you were finished, great. If you weren't, you
association, which is a requirement to assess for	18	may finish your answer.
Bradford Hill	19	A I I'm going to have to say I I so
Q Would your	20	the the Table 7 is an illustration of the
MR. LAPINSKI: She's not finished	21	number of women who would be impacted.
A but how many	22	And the point was to explain that the
MR. LAPINSKI: Counsel.	23	strength of the association is separate from the
A but	24	number of women impacted. But indeed, it
MR. ZELLERS: Okay. Counsel, one lawyer	25	illustrates how important the number of women
Page 227		Page 229
can object. Okay. I don't want all of you	1	impacted is.
		Q Let's go through your math.
		A Yes.
· ·	4	Q So the table, Table 7, includes several
	5	assumptions; is that right?
•	6	A A great number of assumptions.
	7	Q You ran the data, assuming that 10 percent
make a statement	8	of the female population in the United States used
MR. ZELLERS: Yeah	9	talcum powder products regularly, as you define
MR. LAPINSKI: make a statement.	10	"regularly"; is that right?
MR. ZELLERS: I'm making a statement	11	A Just to clarify, I I demonstrated what
that I do not want	12	the impact would be if we estimated the number of
MR. LAPINSKI: That's	13	women at 10 percent.
MR. ZELLERS: the whole group of	14	Q You did the same calculation for
lawyers	15	20 percent and 30 percent; is that right?
MR. LAPINSKI: and you	16	A Yes, I did.
MR. ZELLERS: on the Plaintiffs' side	17	Q You don't actually know what percentage of
objecting.	18	women use talcum powder products regularly
MR. LAPINSKI: I'm sitting directly	19	A I
across the table from you. And I can hear you, and	20	Q correct?
I have heard you all day.	21	A I do not.
MR. ZELLERS: Okay.	22	Q All right. The calculation or your
MR. LAPINSKI: I have heard you carry on	23	conclusion is that .14 percent of women exposed to
the way you have carried on all day. There's no	24	talcum powder products have invasive serous cancer.
reason to raise your voice to me. I can hear you	25	And I am looking at your 10 percent assumption that
	magnitude of that association?  And sometimes the magnitude of the association is mistakenly used as an approximation of the strength of the association.  And I was trying to disentangle the strength of the association. How truly do we know they're associated with if it is associated, how big of an impact would it have?  And so the purpose of Table 7 is not in any way to demonstrate the strengths of the association, which is a requirement to assess for Bradford Hill  Q Would your  MR. LAPINSKI: She's not finished  A but how many  MR. LAPINSKI: - Counsel.  A but  MR. ZELLERS: Okay. Counsel, one lawyer  Page 227  can object. Okay. I don't want all of you objecting.  MR. LAPINSKI: Don't don't raise your voice to me.  MR. ZELLERS: No. I don't want all of you objecting.  MR. LAPINSKI: Counsel, if you want to make a statement  MR. ZELLERS: Yeah  MR. ZELLERS: I'm making a statement that I do not want  MR. ZELLERS: I'm making a statement that I do not want  MR. LAPINSKI: That's  MR. LAPINSKI: and you  MR. LAPINSKI: and you  MR. LAPINSKI: i'm sitting directly across the table from you. And I can hear you, and I have heard you all day.  MR. ZELLERS: Okay.	magnitude of that association?  And sometimes the magnitude of the association is mistakenly used as an approximation of the strength of the association.  And I was trying to disentangle the strength of the association. How truly do we know they're associated with if it is associated, how big of an impact would it have?  And so the purpose of Table 7 is not in any way to demonstrate the strengths of the association, which is a requirement to assess for Bradford Hill  Q Would your  MR. LAPINSKI: She's not finished  A but how many  MR. LAPINSKI: Counsel.  A but  MR. ZELLERS: Okay. Counsel, one lawyer  Page 227  can object. Okay. I don't want all of you objecting.  MR. LAPINSKI: Don't don't raise your voice to me.  MR. ZELLERS: No. I don't want all of you objecting.  MR. LAPINSKI: Counsel, if you want to make a statement  MR. ZELLERS: yeah  MR. ZELLERS: I'm making a statement  that I do not want  MR. ZELLERS: I'm making a statement  that I do not want  MR. ZELLERS: the whole group of lawyers  MR. LAPINSKI: and you  MR. ZELLERS: on the Plaintiffs' side objecting.  MR. LAPINSKI: I'm sitting directly across the table from you. And I can hear you, and I have heard you all day.  MR. ZELLERS: Okay.

	Page 230		Page 232
1	you make.	1	women get ovarian cancer. That would be five
2	Did you mean .14 or did you mean for that	2	million women.
3	to be 14 percent?	3	I'm saying if we look at the world of
4	A So I I take your correction as a as	4	invasive serous cancers in the United States, there
5	correct.	5	will be in the ballpark of 11,000 serous cancers
6	Q Okay.	6	every year in the United States.
7	A I do mean 14 percent, but but it's not	7	Of those, 14 percent of those will occur
8	the way you have interpreted it.	8	in regular users of talc powders. 86 percent will
9	The the the calculation the	9	occur in nonregular talc users.
10	columns are the percent of invasive cancer that is	10	So you're interpreting what is listed as a
11	attributable to talcum powder, not the proportion of	11	column percent. It says, Percent of invasive serous
12	cancer the proportion of women exposed who will	12	cancer in women exposed to talc products.
13	develop cancer. Those are very different.	13	You're interpreting that as if I'm saying
14	Q I'm not sure I understand. Your column	14	that the women exposed, that 15 percent of them will
15	here says, The percent of invasive serous cancer in	15	get ovarian cancer.
16	women exposed to talcum powder products; is that	16	Q And in fact, if if your caption is
17	right?	17	right, if we really are looking at the percent of
18	A That is correct.	18	invasive serous cancer in women exposed to talcum
19	Q Okay. The universe of talcum powder	19	powder products, it would be less than .01 percent,
20	products, which you're estimating here and I	20	right?
21	understand it's an estimation is 10 percent of	21	A Um
22	the population; is that right?	22	MS. O'DELL: Object to the form.
23	MS. O'DELL: Object to the form.	23	A you you're asking me how many women
24	A I I I'm estimating in this	24	with exposure will end up getting?
25	table that 10 percent of women use talcum powder	25	Q (BY MR. ZELLERS) Yes.
	Page 231		Page 233
1	Q (BY MR. ZELLERS) Right.	1	A So that's a a good number. It's not
2	A products in the U.S.		
3	-	2	one I presented, but certainly one I can estimate,
J	Q There are approximately what do you say	3	which is if we're talking about 31 million women
4	Q There are approximately what do you say 30	3 4	which is if we're talking about 31 million women who have regular exposure and of those who will
4 5	Q There are approximately what do you say 30 A 311 million.	3 4 5	which is if we're talking about 31 million women who have regular exposure and of those who will get I'm scribbling on my exhibit. I hope that's
4 5 6	Q There are approximately what do you say 30 A 311 million. Q all right. So 311 million. And you	3 4 5 6	which is if we're talking about 31 million women who have regular exposure and of those who will get I'm scribbling on my exhibit. I hope that's okay. Is that okay? One, two, three one, two,
4 5 6 7	Q There are approximately what do you say 30 A 311 million. Q all right. So 311 million. And you are estimating for purposes of this exercise that	3 4 5 6 7	which is if we're talking about 31 million women who have regular exposure and of those who will get I'm scribbling on my exhibit. I hope that's okay. Is that okay? One, two, three one, two, three. One one out of one out of 3,000 women
4 5 6 7 8	Q There are approximately what do you say 30 A 311 million. Q all right. So 311 million. And you	3 4 5 6 7 8	which is if we're talking about 31 million women who have regular exposure and of those who will get I'm scribbling on my exhibit. I hope that's okay. Is that okay? One, two, three one, two, three. One one out of one out of 3,000 women will get
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4 5 6 7 8 9 10 11	Q There are approximately what do you say 30 A 311 million. Q all right. So 311 million. And you are estimating for purposes of this exercise that 31,100,000 are regular users; is that right? A Yes. Q And what you are trying to determine is of those 31,100,000, what percent of regular talc users will have invasive serous cancer, correct?	3 4 5 6 7 8 9 10 11	which is if we're talking about 31 million women who have regular exposure and of those who will get I'm scribbling on my exhibit. I hope that's okay. Is that okay? One, two, three one, two, three. One one out of one out of 3,000 women will get  Q So A ovarian cancer. Q approximately .01 percent, correct? A That sounds pretty good, actually.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q There are approximately what do you say 30 A 311 million. Q all right. So 311 million. And you are estimating for purposes of this exercise that 31,100,000 are regular users; is that right? A Yes. Q And what you are trying to determine is of those 31,100,000, what percent of regular talc users will have invasive serous cancer, correct? A Yes. Q And you have calculated 14 percent; is that right? A No. Q It's wrong, right? A The way you are describing it is wrong. But I can give you an example to help you understand that table. Q Well A The number of cancers, we're talking about	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	which is if we're talking about 31 million women who have regular exposure and of those who will get I'm scribbling on my exhibit. I hope that's okay. Is that okay? One, two, three one, two, three. One one out of one out of 3,000 women will get  Q So A ovarian cancer. Q approximately .01 percent, correct? A That sounds pretty good, actually. Q All right. Dose response. A significant number of the talcum powder studies that you looked at do not show a dose response or fail to account for dose response altogether; is that right? A In my summary of dose response on page 39, I note that Penninkilampi, one of the large meta-analyses, which I think is the most comprehensive review, talks about dose response. I didn't cite here and it was an oversight Berge, another large comprehensive

	Page 234		Page 236
1	response. That's the pool data of a large number of	1	A Yes.
2	studies. Those are, you know, both quite I I	2	Q Would you agree that generally when you
3	have covered most of the publications, so those show	3	looked at the published studies, that they showed an
4	dose response.	4	association of around 1.3 between perineal talc use
5	There are a few others that I show. There	5	and ovarian cancer?
6	are definitely a bunch that do not address the issue	6	A I think many of the studies showed an
7	of dose response, but but I wouldn't characterize	7	association of about 1.3 of any talc use. Not
8	it as most do not.	8	quantifying the amount of exposure.
9	Q Well, you state on page 40 of your report	9	Q But would you agree that an that
10	with respect to dose response, The results are	10	epidemiologists generally consider a 1.3 odds ratio
11	inconsistent and more importantly are not considered	11	in a case-control study to be a weak or modest
12	or assessed in most of the published studies.	12	association?
13	That was your conclusion with respect to	13	MS. O'DELL: Object to the form.
14	dose response; is that right?	14	A I am I am unaware what of what most
15	A You are going to have to tell me where	15	epidemiologists think.
16	you're reading. What I'm reading says, In summary,	16	Q (BY MR. ZELLERS) Have you seen any peer
17	most, but not all, studies of talcum powder products	17	reviewed literature on talc and ovarian cancer that
18	in ovarian cancer show a dose response.	18	states that 1.3 is a strong association?
19	THE COURT REPORTER: Slow down when you	19	A I mean, Penninkilampi concludes there's a
20	read, please.	20	consistent association between perineal talc talc
21	A I'm so sorry.	21	use and ovarian cancer.
22	In summary, most, but not all, studies of	22	And I'm just looking for how he quantifies
23	talcum powder products in ovarian cancer show a dose	23	that. He concludes the results indicate that
24	response. Most do.	24	perineal talc use is associated with a 24 to
25	But the results are inconsistent and more	25	39 percent increased risk of ovarian cancer.
	Page 235		Page 237
1	importantly are not considered assessed in most	1	He doesn't quantify it as weak or strong,
^			<b>1</b> ,
2	that that should not say "most." It should say	2	but there's a suggestion that a 39 percent increase
3	"in many of the published studies."	2 3	but there's a suggestion that a 39 percent increase is important. But he he doesn't quantify it. So
3 4	"in many of the published studies."  Q (BY MR. ZELLERS) All right. So you would	3 4	but there's a suggestion that a 39 percent increase is important. But he he doesn't quantify it. So I would have to look through the authors'
3 4 5	"in many of the published studies."  Q (BY MR. ZELLERS) All right. So you would amend your report from "most" to "many; is that	3 4 5	but there's a suggestion that a 39 percent increase is important. But he he doesn't quantify it. So I would have to look through the authors' conclusions.
3 4 5 6	"in many of the published studies."  Q (BY MR. ZELLERS) All right. So you would amend your report from "most" to "many; is that right?	3 4 5 6	but there's a suggestion that a 39 percent increase is important. But he he doesn't quantify it. So I would have to look through the authors' conclusions.  Q Do you know who Penninkilampi is?
3 4 5 6 7	"in many of the published studies."  Q (BY MR. ZELLERS) All right. So you would amend your report from "most" to "many; is that right?  A I I used "most" twice in the same	3 4 5 6 7	but there's a suggestion that a 39 percent increase is important. But he — he doesn't quantify it. So I would have to look through the authors' conclusions.  Q Do you know who Penninkilampi is?  A I do not.
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	Page 238		Page 240
1	A I	1	are summarized the way you summarized them. And I
2	MS. O'DELL: Object to the form.	2	think if you look at them a little more closely, I
3	A it's published in a very high-impact,	3	would not make that conclusion. So
4	high-quality medical journal, and I would suspect	4	Q For the reasons set forth in your report?
5	that that would be required of that journal.	5	A It's in my report.
6	But but I I I don't I	6	MR. ZELLERS: All right. Let's take a
7	I don't know that journal's requirements, but I	7	break.
8	would suspect that they would require reporting	8	THE VIDEOGRAPHER: We're off the record.
9	funding.	9	The time is 3:58 p.m.
10	Q You	10	(A break was taken from 3:58 p.m. to
11	A It says I'm sorry. It says, The	11	3:58 p.m.)
12	authors report no conflicts of interest and have not	12	(Next portion not on video record.)
13	reported funding.	13	MR. ZELLERS: So we are back on the
14	And typically when you have to reporting	14	written record, but not the video record. My
15	conflicts of interest in the same area, you also	15	understanding is that, you know, we are taking a
16	report funding, and I don't see any of that.	16	break as an accommodation to the witness, and that
17	Q The cohort studies. There are four cohort	17	that's fine, but that, you know, you are not going
18	studies; is that right?	18	to use this time to further meet and prepare the
19	A Yes.	19	witness based upon the questions I asked today.
20	Q All right. You rely only on the Gertig	20	MS. O'DELL: Correct. There's
21	study, the 2000 study; is that right	21	there's Dr. Smith-Bindman is taking this break
22	MS. O'DELL: Object to the form.	22	because she is still recovering from her concussion.
23	Q (BY MR. ZELLERS) of those four?	23	There will be no meeting with
24	MS. O'DELL: Excuse me. Object to the	24	Dr. Smith-Bindman. I do want to point out counsel
25	form.	25	for J&J seems to have dictated this requirement in
	Page 239		Page 241
1	A My report summarizes all four of them, and	1	order to accommodate the witness's situation.
2	that all went into the weight of my report.	2	But I would just note the deposition
3	In terms of being included in any	3	protocol has no such restriction, and and so
4	systematic review, only one of them was included in	4	that to that degree, I would say we have no
5	the systematic review.	5	intent to prepare the witness any further.
6	Q (BY MR. ZELLERS) If you looked just at the	6	But we're not restricted from talking to
7	cohort studies	7	the witness, and I don't want the record to suggest
8	A Yes.	8	otherwise.
9	Q you would not find a statistically	9	MR. ZELLERS: We will see you tomorrow.
10	significant association between perineal talc use	10	MS. O'DELL: Thank you.
11	and ovarian cancer, correct?	11	THE VIDEOGRAPHER: We are back on the
12	MS. O'DELL: Object to the form.	12	record at 4:01 p.m, and this is the end of Disc
13	A I	13	No. 4 in today's testimony of Dr. Rebecca
14	MS. O'DELL: Excuse me. When when you	14	Smith-Bindman. The time is 4:01 p.m.
15 16	get to a good stopping point, it would be good to	15	(TIME NOTED, 4.01)
16 17	take a break	16 17	(TIME NOTED: 4:01 p.m.)
17 18	MR. ZELLERS: Okay.  MS. O'DELL: but whenever you're if	18	
18 19	you have a few more minutes, that's fine, but	19	
20	whenever you get to a good point.	20	
∠ ∪	A so I summarize my view of the cohort	21	
21	<del>-</del>	22	
21	studies which are not avactly what you what you		
22	studies, which are not exactly what you what you just summarized them	l .	
22 23	just summarized the way you just summarized them	23	
22		l .	

	Page 242	Page 244
1		1 ERRATA SHEET
2		-
3		Como v Zingarion Sel vices
4	I, REBECCA SMITH-BINDMAN, M.D., VOLUME I, do	
5	hereby declare under penalty of perjury that I have	4 Philadelphia, Pennsylvania 19103
6	read the foregoing transcript; that I have made any	5 877-370-3377
7	corrections as appear noted, in ink, initialed by	6 CASE: Talcum Powder Litigation
8	me, or attached hereto; that my testimony as	7 PAGE LINE FROM TO
9	contained herein, as corrected, is true and correct.	8
10	EXECUTED this day of,	9
11	20, at	10
	(City) (State)	11
12		12
13		13
14		14
	REBECCA SMITH-BINDMAN, M.D.	15
15	VOLUME I	16
16		17
17		18
18		
19		
20		
21		21 REBECCA SMITH-BINDMAN, M.D., VOLUME I
22		22 Subscribed and sworn to before me
23		23 this day of, 2019.
24		24
25		25 Notary Public
	Page 243	
1	I, MARY J. GOFF, CSR No. 13427, Certified	
2	Shorthand Reporter of the State of California,	
3	certify;	
4	That the foregoing proceedings were taken	
5	before me at the time and place herein set forth, at	
6	which time the witness declared under penalty of	
7	perjury; that the testimony of the witness and all	
8	objections made at the time of the examination were	
9	recorded stenographically by me and were thereafter	
10	transcribed under my direction and supervision; that	
11	the foregoing is a full, true, and correct	
12	transcript of my shorthand notes so taken and of the	
13		
13	testimony so given; That before completion of the deposition	
	That before completion of the deposition,	
15 16	review of the transcript ( ) was (XX) was not	
16	requested: ( ) that the witness has failed or	
17	refused to approve the transcript.	
18	I further certify that I am not financially	
19	interested in the action, and I am not a relative or	
20	employee of any attorney of the parties, nor of any	
21	of the parties.	
22	I declare under penalty of perjury under the	
23	laws of California that the foregoing is true and	
24	correct, dated this day of , 2019.	
25	MARY J. GOFF	